


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER NBU 922-3414CS				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-0149077			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	2172 FNL 612 FEL		SENE	34	9.0 S	22.0 E	S			
Top of Uppermost Producing Zone	1600 FSL 507 FEL		NESE	34	9.0 S	22.0 E	S			
At Total Depth	1600 FSL 507 FEL		NESE	34	9.0 S	22.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 507		23. NUMBER OF ACRES IN DRILLING UNIT 600					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1078		26. PROPOSED DEPTH MD: 9007 TVD: 8761					
27. ELEVATION - GROUND LEVEL 4899			28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496					
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2280	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 9007	11.6	I-80 LT&C	12.0	Premium Lite High Strength	290	3.38	12.0
							50/50 Poz	1250	1.31	14.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Gina Becker			TITLE Regulatory Analyst II			PHONE 720 929-6086				
SIGNATURE			DATE 05/08/2013			EMAIL gina.becker@anadarko.com				
API NUMBER ASSIGNED 43047537470000			APPROVAL  Permit Manager							

**Kerr-McGee Oil & Gas Onshore. L.P.**

**NBU 922-34I4CS**  
Surface: 2172 FNL / 612 FEL      SENE  
BHL: 1600 FSL / 507 FEL      NESE

Section 34 T9S R22E

Uintah County, Utah  
Mineral Lease: UTU-0149077

**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**  
**Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,063'	
Birds Nest	1,372'	Water
Mahogany	1,833'	Water
Wasatch	4,219'	Gas
Mesaverde	6,532'	Gas
Sego	8,761'	Gas
TVD	8,761'	
TD	9,007'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

1/10/2013

**RECEIVED:** May 07, 2013

**7. Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 8761' TVD, approximately equals  
5,344 psi 0.61 psi/ft = actual bottomhole gradient

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Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,440 psi (bottom hole pressure  
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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Per Onshore Order No. 2 - Max Anticipated Surf. Press. (MASP) = (Pore Pressure at next csg point -  
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

**8. Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

**9. Variances:**

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

**10. Other Information:**

Please refer to the attached Drilling Program.

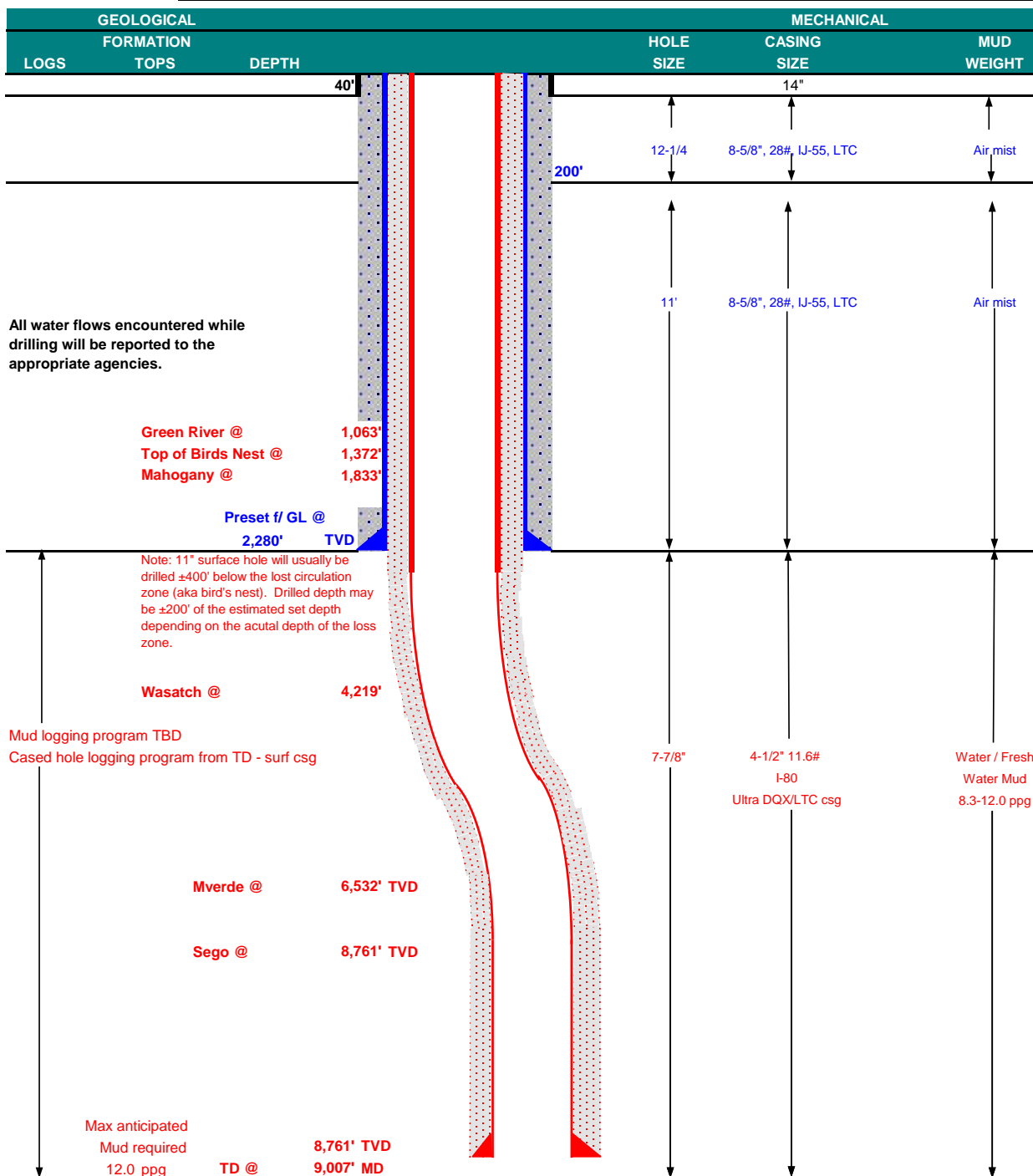
1/10/2013

RECEIVED: May 07, 2013



**KERR-McGEE OIL & GAS ONSHORE LP**  
**DRILLING PROGRAM**

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	January 10, 2013	
WELL NAME	<b>NBU 922-3414CS</b>				TD	8,761'	9,007' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,899'
SURFACE LOCATION	SENE	2172 FNL	612 FEL	Sec 34	T 9S	R 22E	
	Latitude:	39.993802	Longitude:	-109.418887 NAD 83			
BTM HOLE LOCATION	NESE	1600 FSL	507 FEL	Sec 34	T 9S	R 22E	
	Latitude:	39.989655	Longitude:	-109.418505 NAD 83			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.						





## KERR-McGEE OIL & GAS ONSHORE LP

### DRILLING PROGRAM

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	LTC	DQX
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,280	28.00	IJ-55	LTC	2.37	1.76	6.22
						7,780	6,350	223,000
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.16	3.13
						7,780	6,350	223,000
	4-1/2"	5,000 to 9,007'	11.60	I-80	LTC	1.11	1.16	5.87

**Surface Casing:**

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe  
 Fracture at surface shoe with 0.1 psi/ft gas gradient above  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

**CEMENT PROGRAM**

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1						
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE LEAD	1,780'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	160	35%	11.00	3.82
Option 2						
TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,717'	Premium Lite II + 0.25 pps celloflake + .4% FL-52 + .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II + 1.2% Sodium Metasilicate + .05 lbs/sk Static Free	290	35%	12.00	3.38
TAIL	5,290'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free + 1.2% Sodium Metasilicate + .5 % EC-1 +.002 gps FP-6L + 2% Bentonite II	1,250	35%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

**DRILLING ENGINEER:**

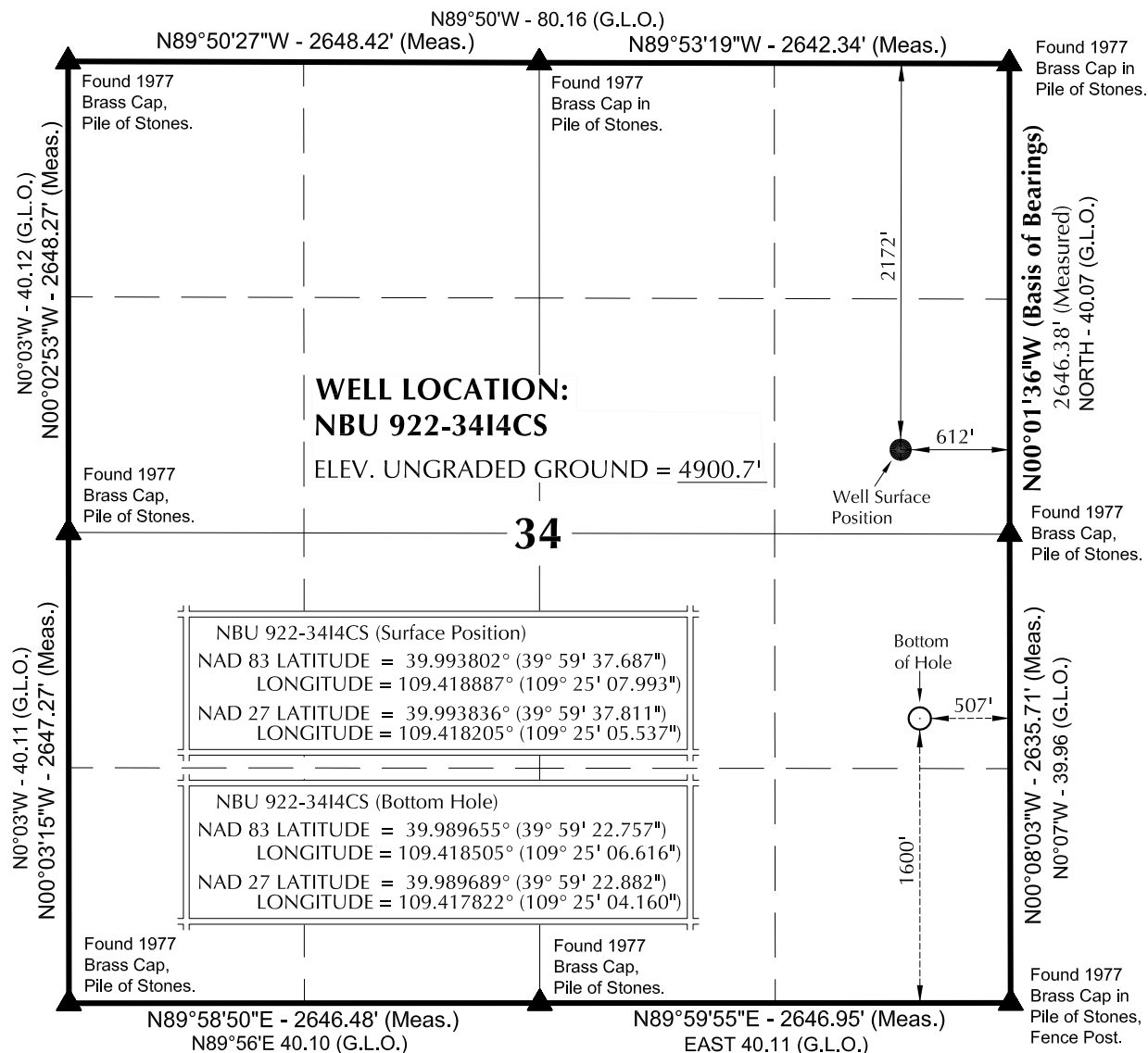
Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott

**DATE:****DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

**DATE:**

**T9S, R22E, S.L.B.&M.**



NOTES:

- ▲ = Section Corners Located
1. Well footages are measured at right angles to the Section Lines.
  2. G.L.O. distances are shown in feet or chains.  
1 chain = 66 feet.
  3. The Bottom of hole bears S04°05'14"E 1514.89' from the Surface Position.
  4. Bearings are based on Global Positioning Satellite observations.
  5. Basis of elevation is Tri-Sta "Two Water" located in the NW  $\frac{1}{4}$  of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

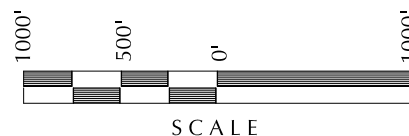
**WELL PAD: NBU 922-34H4**

**NBU 922-3414CS**  
**WELL PLAT**

**1600' FSL, 507' FEL (Bottom Hole)**  
**NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  OF SECTION 34, T9S, R22E,**  
**S.L.B.&M., UINTAH COUNTY, UTAH.**



**CONSULTING, LLC**  
2155 North Main Street  
Sheridan WY 82801  
Phone 307-674-0609  
Fax 307-674-0182



## SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED  
FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR  
UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE  
AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR  
REGISTRATION No. 6028691  
STATE OF UTAH

## TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078

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**SURVEYED:**

6-19-12

SURVEYED BY: W.W.

SHEET NO:

DATE DRAWN:  
6-21-12

BRAMLEY, J. D.

4

SCALE: 1" = 1000'

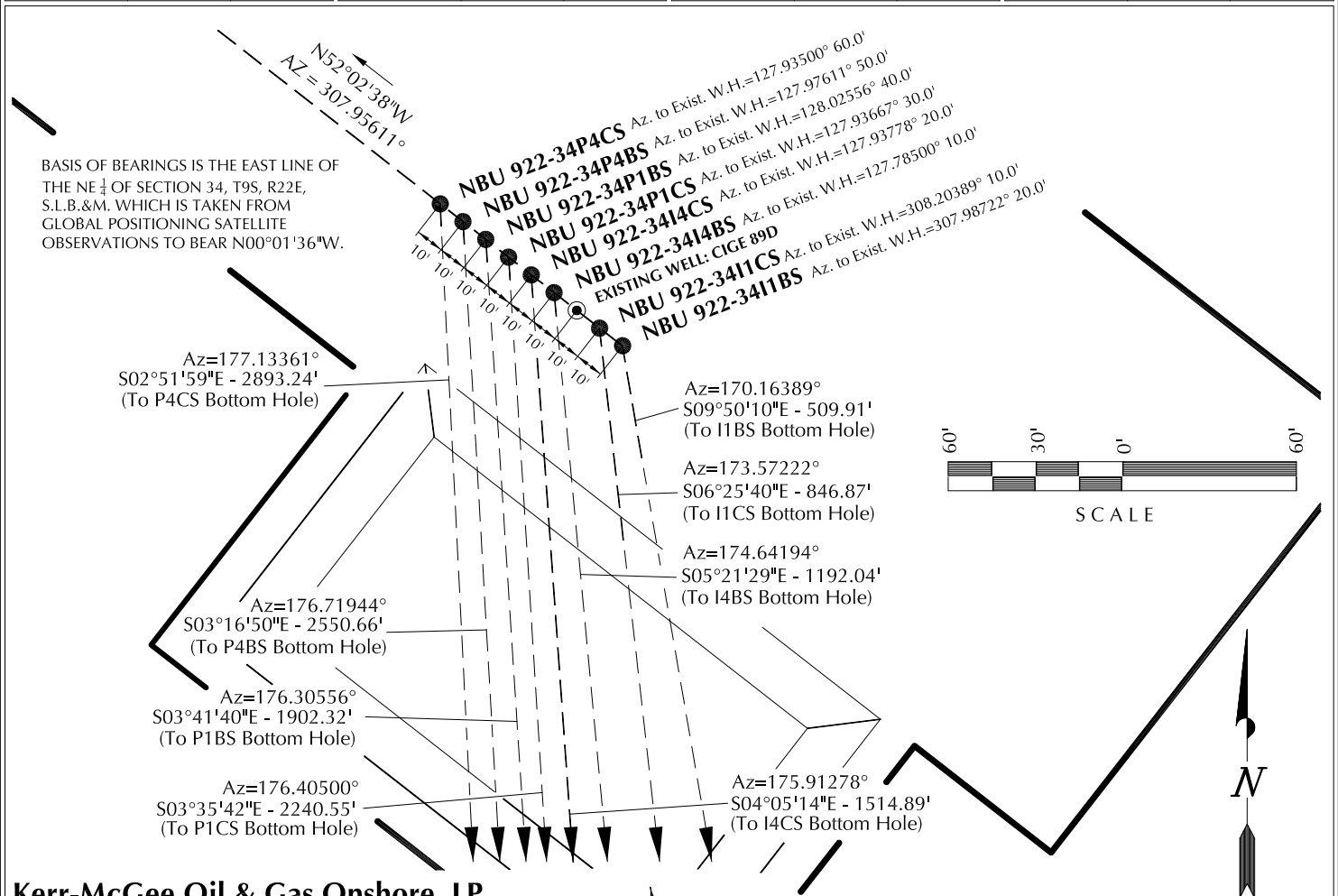
Date Last Revised:	
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4 OF 20

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-34I1BS	39°59'37.443"	109°25'07.588"	39°59'37.568"	109°25'05.131"	2197' FNL	39°59'32.479"	109°25'06.473"	39°59'32.604"	109°25'04.016"	2584' FSL
NBU 922-34I1CS	39.993734°	109.418775°	39.993769°	109.418092°	581' FEL	39.992355°	109.418465°	39.992390°	109.417782°	494' FEL
NBU 922-34I1BS	39°59'37.504"	109°25'07.690"	39°59'37.629"	109°25'05.233"	2191' FNL	39°59'29.189"	109°25'06.478"	39°59'29.314"	109°25'04.021"	2251' FSL
NBU 922-34I1CS	39.993751°	109.418803°	39.993786°	109.418120°	589' FEL	39.991441°	109.418466°	39.991476°	109.417784°	495' FEL
NBU 922-34I4BS	39°59'37.625"	109°25'07.892"	39°59'37.750"	109°25'05.435"	2178' FNL	39°59'25.899"	109°25'06.470"	39°59'26.024"	109°25'04.013"	1918' FSL
NBU 922-34I4CS	39.993785°	109.418859°	39.993819°	109.418176°	604' FEL	39.990528°	109.418464°	39.990562°	109.417781°	495' FEL
NBU 922-34I4BS	39°59'37.687"	109°25'07.993"	39°59'37.811"	109°25'05.537"	2172' FNL	39°59'22.757"	109°25'06.616"	39°59'22.882"	109°25'04.160"	1600' FSL
NBU 922-34I4CS	39.993802°	109.418887°	39.993836°	109.418205°	612' FEL	39.989655°	109.418505°	39.989689°	109.417822°	507' FEL
NBU 922-34P1CS	39°59'37.747"	109°25'08.094"	39°59'37.872"	109°25'05.637"	2166' FNL	39°59'15.654"	109°25'06.304"	39°59'15.778"	109°25'03.848"	881' FSL
NBU 922-34P1BS	39.993819°	109.418915°	39.993853°	109.418233°	620' FEL	39.987686°	109.418418°	39.987716°	109.417735°	484' FEL
NBU 922-34P1BS	39°59'37.809"	109°25'08.195"	39°59'37.933"	109°25'05.738"	2160' FNL	39°59'19.053"	109°25'06.633"	39°59'19.177"	109°25'04.177"	1225' FSL
NBU 922-34P1BS	39.993836°	109.418943°	39.993870°	109.418261°	628' FEL	39.988626°	109.418509°	39.988660°	109.417827°	509' FEL
NBU 922-34P4BS	39°59'37.869"	109°25'08.297"	39°59'37.994"	109°25'05.840"	2154' FNL	39°59'12.710"	109°25'06.438"	39°59'12.834"	109°25'03.982"	583' FSL
NBU 922-34P4BS	39.993853°	109.418971°	39.993887°	109.418289°	636' FEL	39.986864°	109.418455°	39.986898°	109.417773°	495' FEL
NBU 922-34P4CS	39°59'37.930"	109°25'08.398"	39°59'38.054"	109°25'05.942"	2148' FNL	39°59'09.380"	109°25'06.559"	39°59'09.504"	109°25'04.102"	246' FSL
NBU 922-34P4CS	39.993869°	109.419000°	39.993904°	109.418317°	644' FEL	39.985939°	109.418489°	39.985973°	109.417806°	505' FEL
CIGE 89D	39°59'37.565"	109°25'07.791"	39°59'37.690"	109°25'05.334"	2185' FNL					
CIGE 89D	39.993768°	109.418831°	39.993803°	109.418148°	597' FEL					

## RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-34I1BS	-502.4'	87.1'	NBU 922-34I1CS	-841.5'	94.8'	NBU 922-34I4BS	-1186.8'	111.3'	NBU 922-34I4CS	-1511.0'	108.0'
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-34P1CS	-2236.1'	140.5'	NBU 922-34P1BS	-1898.4'	122.6'	NBU 922-34P4BS	-2546.5'	146.0'	NBU 922-34P4CS	-2889.6'	144.7'



**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - NBU 922-34H4**

**WELL PAD INTERFERENCE PLAT**  
WELLS - NBU 922-34I1BS, NBU 922-34I1CS,  
NBU 922-34I4BS, NBU 922-34I4CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UTAH COUNTY, UTAH.



**CONSULTING, LLC**  
2155 North Main Street  
Sheridan WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**TIMBERLINE**

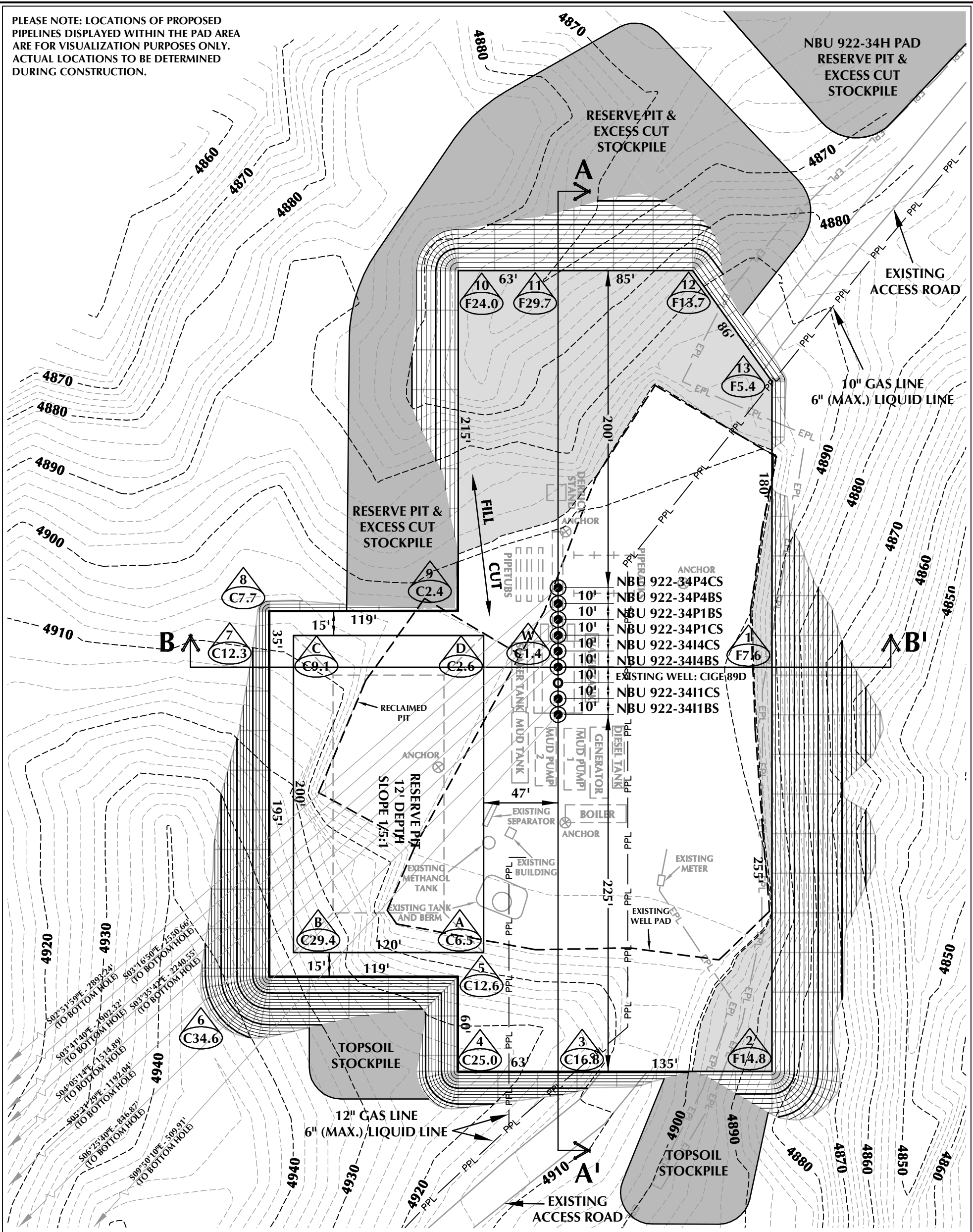
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ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 6-19-12	SURVEYED BY: W.W.	SHEET NO: <b>9</b> 9 OF 20
DATE DRAWN: 6-21-12	DRAWN BY: T.J.R.	
SCALE: 1" = 60'	Date Last Revised:	



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



WELL PAD - NBU 922-34H4 DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4900.8'  
FINISHED GRADE ELEVATION = 4899.4'  
CUT SLOPES = 1:1  
FILL SLOPES = 1.5:1  
TOTAL WELL PAD AREA = 3.90 ACRES  
TOTAL DISTURBANCE AREA = 4.90 ACRES  
SHRINKAGE FACTOR = 1.10  
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34H4

WELL PAD - LOCATION LAYOUT  
NBU 922-34I1BS, NBU 922-34I1CS,  
NBU 922-34I4BS, NBU 922-34I4CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC  
2155 North Main Street  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 23,970 C.Y.  
TOTAL FILL FOR WELL PAD = 21,722 C.Y.  
TOPSOIL @ 6" DEPTH = 2,144 C.Y.  
EXCESS MATERIAL = 2,248 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT  
+/- 8,300 C.Y.  
RESERVE PIT CAPACITY (2' OF FREEBOARD)  
+/- 31,710 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'  
2' CONTOURS

SCALE: 1"=60' DATE: 7/10/12 SHEET NO:

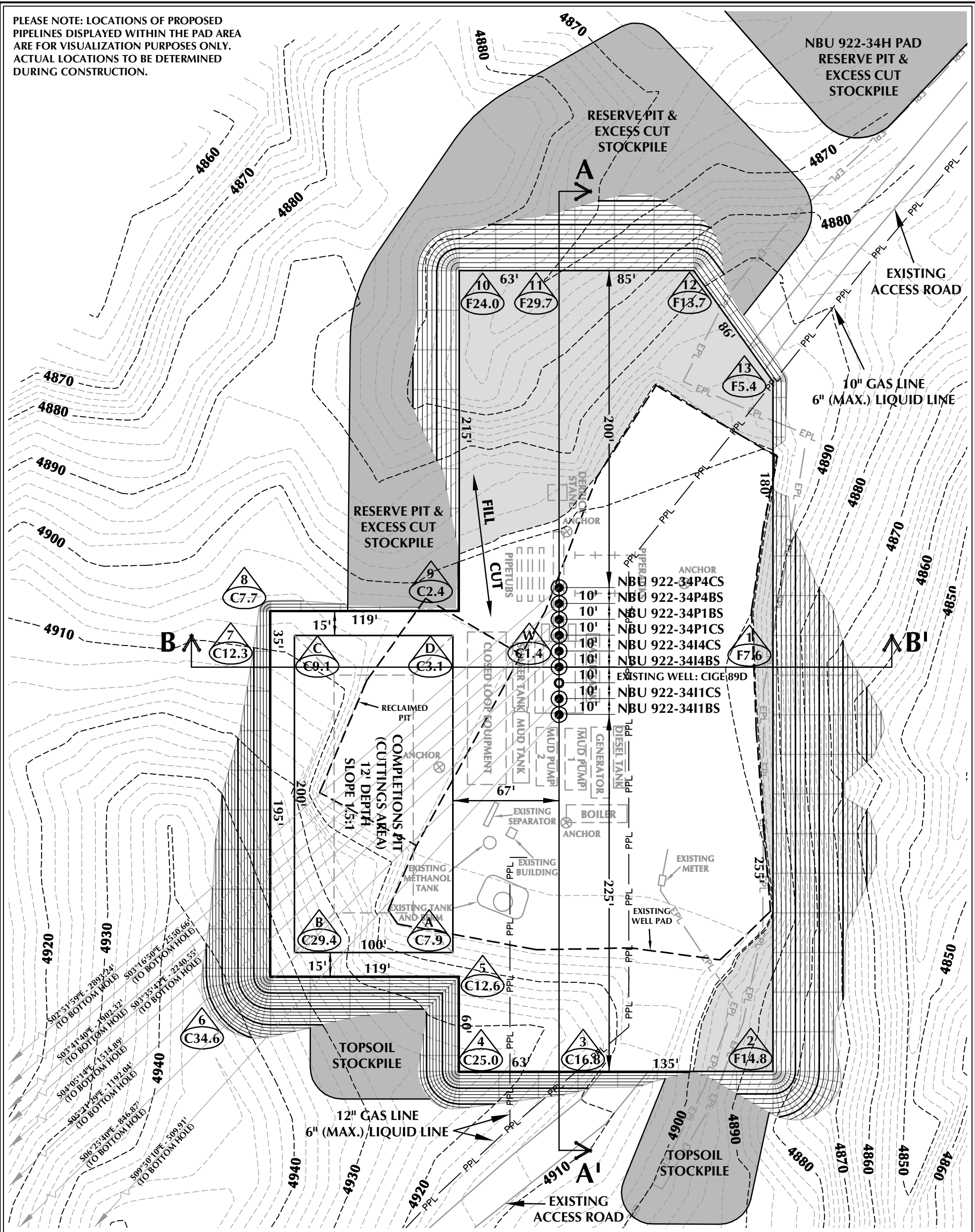
REVISED: 10 10 OF 20

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209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



WELL PAD - NBU 922-34H4 (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4900.8'  
FINISHED GRADE ELEVATION = 4899.4'  
CUT SLOPES = 1:1  
FILL SLOPES = 1.5:1  
TOTAL WELL PAD AREA = 3.90 ACRES  
TOTAL DISTURBANCE AREA = 4.90 ACRES  
SHRINKAGE FACTOR = 1.10  
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34H4

WELL PAD - LOCATION LAYOUT  
NBU 922-34I1BS, NBU 922-34I1CS,  
NBU 922-34I4BS, NBU 922-34I4CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC  
2155 North Main Street  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 23,970 C.Y.  
TOTAL FILL FOR WELL PAD = 21,722 C.Y.  
TOPSOIL @ 6" DEPTH = 2,144 C.Y.  
EXCESS MATERIAL = 2,248 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT  
+/- 6,680 C.Y.  
COMPLETIONS PIT CAPACITY  
(2' OF FREEBOARD)  
+/- 25,330 BARRELS

TIMBERLINE  
ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

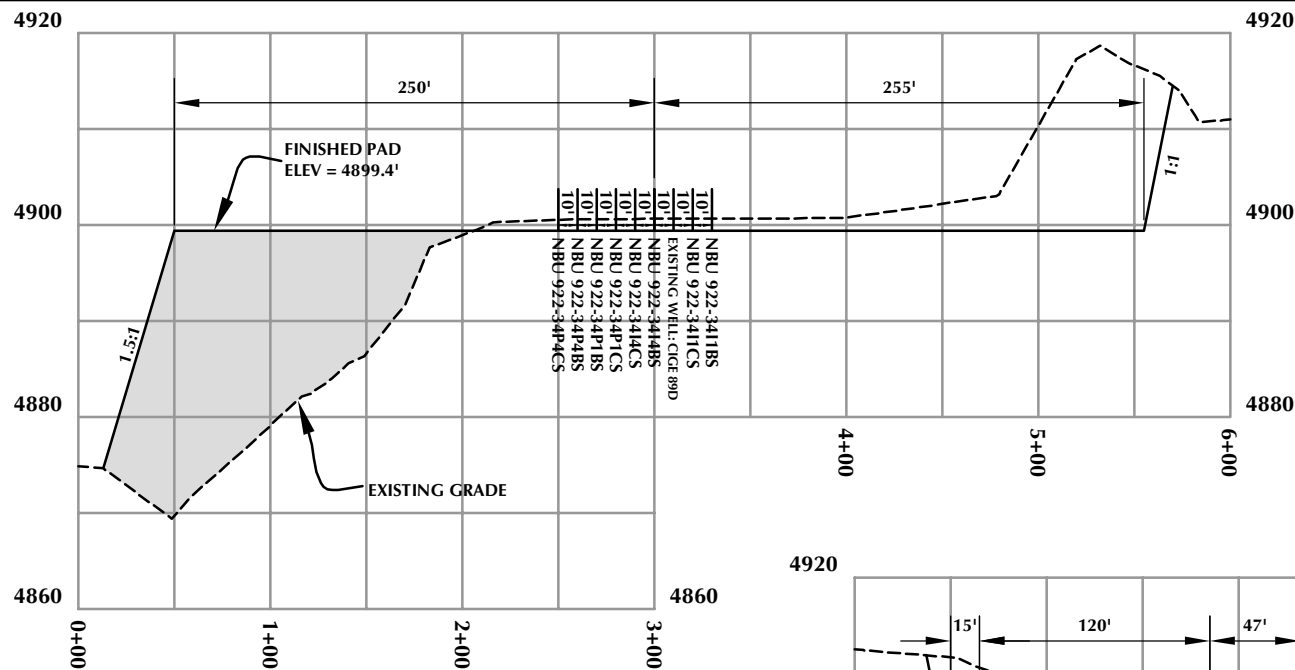
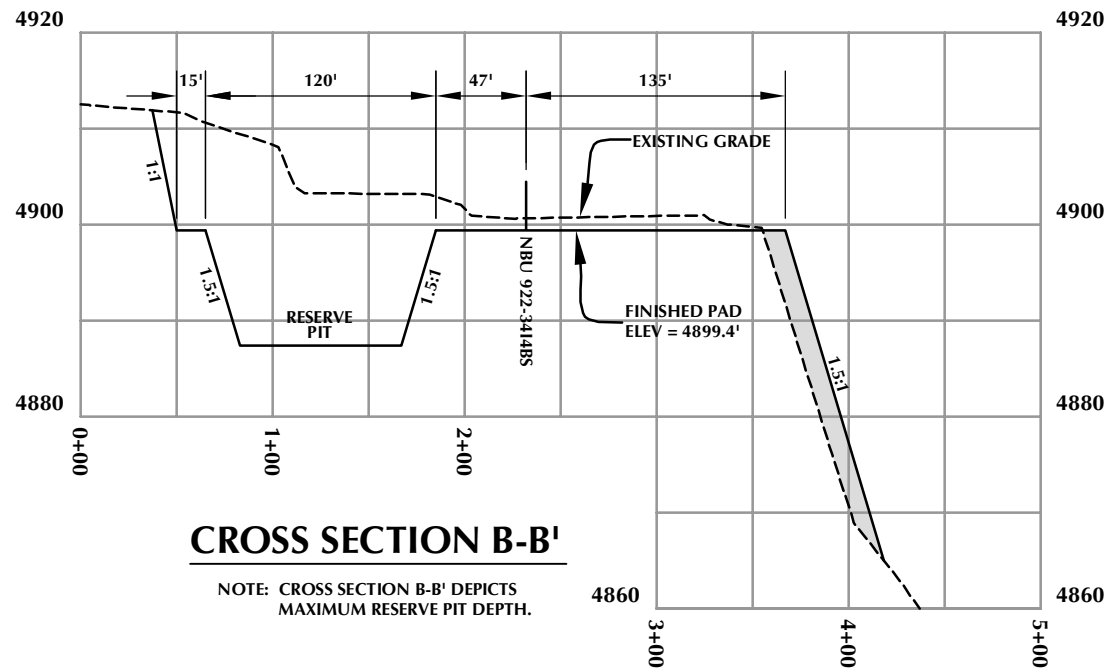
2' CONTOURS

SCALE: 1"=60' DATE: 9/19/12 SHEET NO:

REVISED:

10B

10B OF 20

**CROSS SECTION A-A'****CROSS SECTION B-B'**NOTE: CROSS SECTION B-B' DEPICTS  
MAXIMUM RESERVE PIT DEPTH.

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - NBU 922-34H4**

**WELL PAD - CROSS SECTIONS**  
NBU 922-3411BS, NBU 922-3411CS,  
NBU 922-3414BS, NBU 922-3414CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UTAH COUNTY, UTAH



**CONSULTING, LLC**  
2155 North Main Street  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**TIMBERLINE**  
**ENGINEERING & LAND SURVEYING, INC.**  
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

Scale: 1"=100'

Date: 7/10/12

SHEET NO:

REVISED:

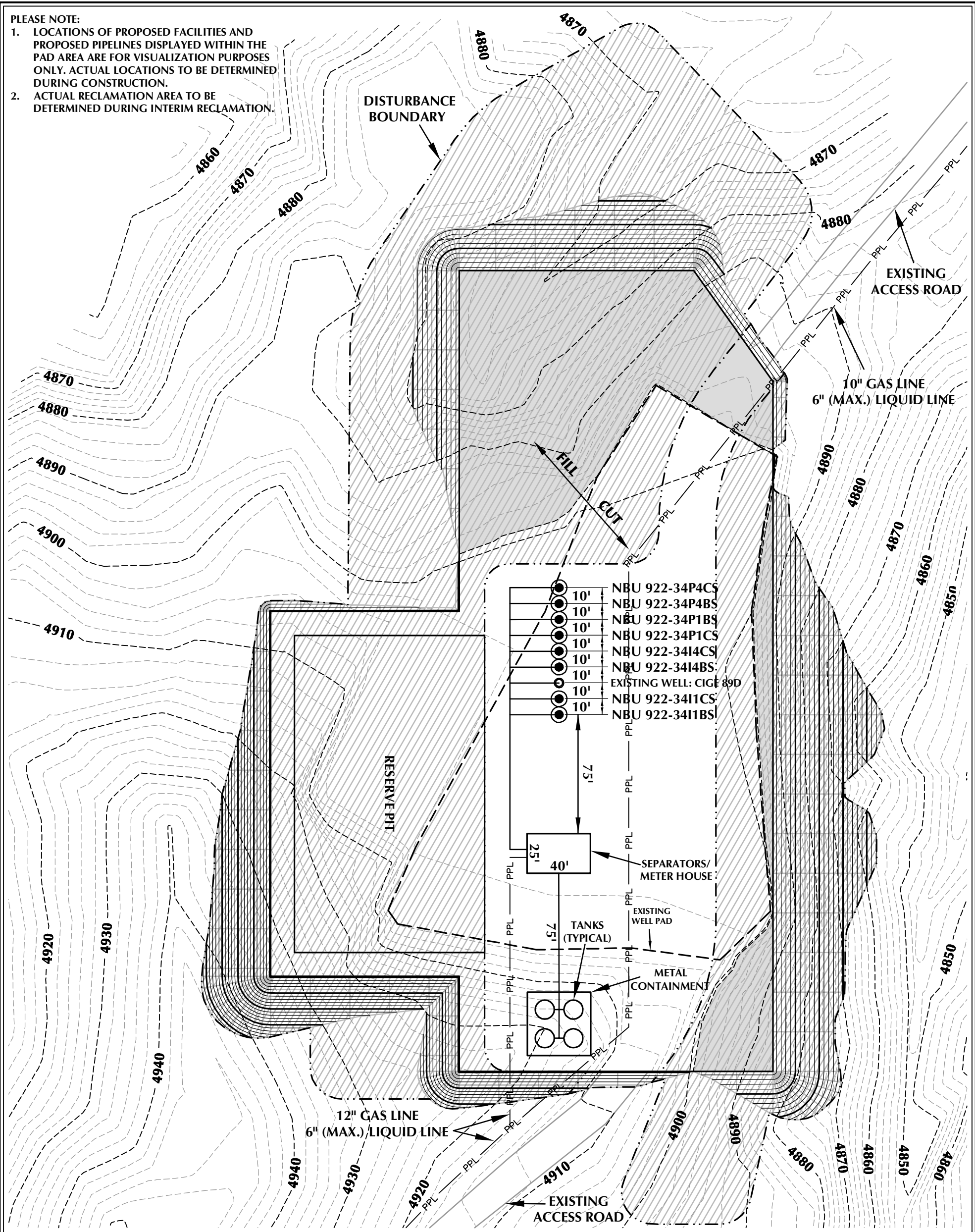
**11**

11 OF 20

RECEIVED: May 07, 2013



- PLEASE NOTE:
1. LOCATIONS OF PROPOSED FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.
  2. ACTUAL RECLAMATION AREA TO BE DETERMINED DURING INTERIM RECLAMATION.



WELL PAD - NBU 922-34H4 DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 4.90 ACRES (INCLUDING EXISTING)  
RECLAMATION AREA = 3.72 ACRES  
TOTAL WELL PAD AREA AFTER RECLAMATION = 1.18 ACRES

Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34H4

WELL PAD - RECLAMATION LAYOUT  
NBU 922-34I1BS, NBU 922-34I1CS,  
NBU 922-34I4BS, NBU 922-34I4CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH



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(435) 789-1365

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE
- RECLAMATION AREA



HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

SCALE: 1"=60' DATE: 7/10/12 SHEET NO: 12 12 OF 20

REVISED:



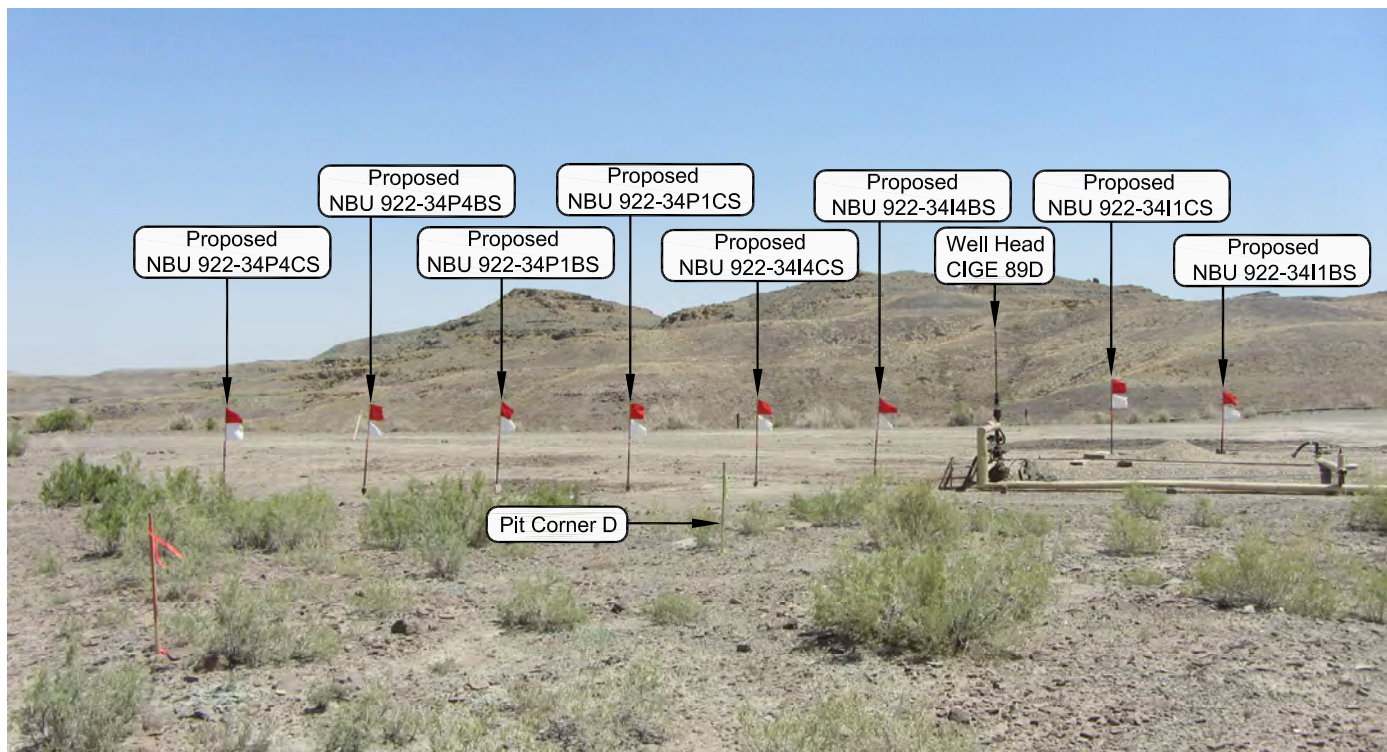


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHERLY

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - NBU 922-34H4**

**LOCATION PHOTOS**  
NBU 922-34I1BS, NBU 922-34I1CS,  
NBU 922-34I4BS, NBU 922-34I4CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH.



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**TIMBERLINE**

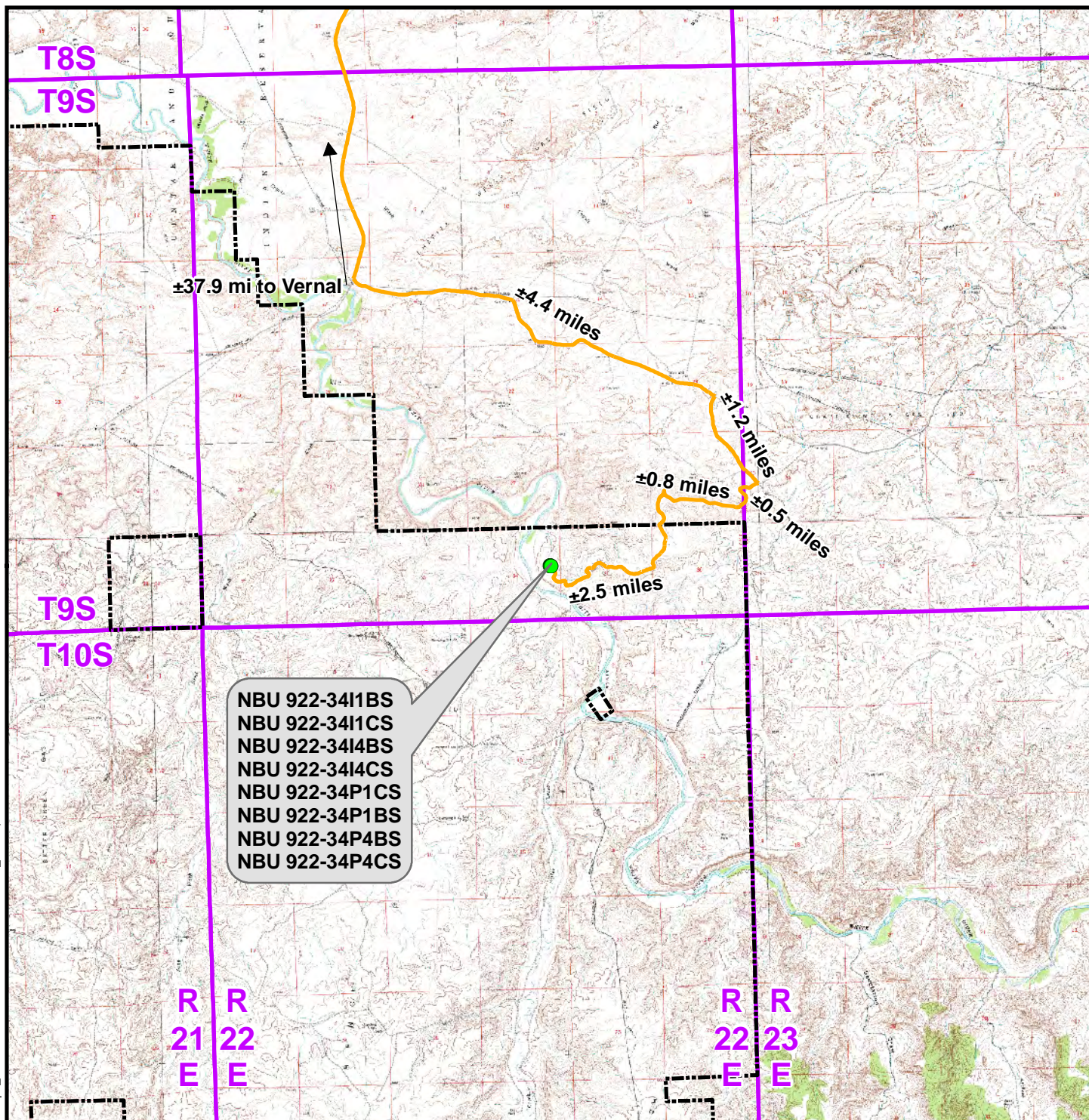
(435) 789-1365

**ENGINEERING & LAND SURVEYING, INC.**  
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 6-19-12	PHOTOS TAKEN BY: W.W.	SHEET NO: <b>13</b> 13 OF 20
DATE DRAWN: 6-21-12	DRAWN BY: T.J.R.	
Date Last Revised:		

RECEIVED: May 07, 2013



**Legend**

- Proposed Well Location      Natural Buttes Unit Boundary  
— Access Route - Proposed

Distance From Well Pad - NBU 922-34H4 To Unit Boundary: ±2,148ft

**WELL PAD - NBU 922-34H4****TOPO A**

NBU 922-34I1BS, NBU 922-34I1CS,  
 NBU 922-34I4BS, NBU 922-34I4CS,  
 NBU 922-34P1CS, NBU 922-34P1BS,  
 NBU 922-34P4BS & NBU 922-34P4CS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., UINAH COUNTY, UTAH

**Kerr-McGee Oil &  
Gas Onshore L.P.**

1099 18th Street  
 Denver, Colorado 80202

**CONSULTING, LLC**

2155 North Main Street  
 Sheridan, Wyoming 82801  
 Phone 307-674-0609  
 Fax 307-674-0182



SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

DATE: 5 July 2012

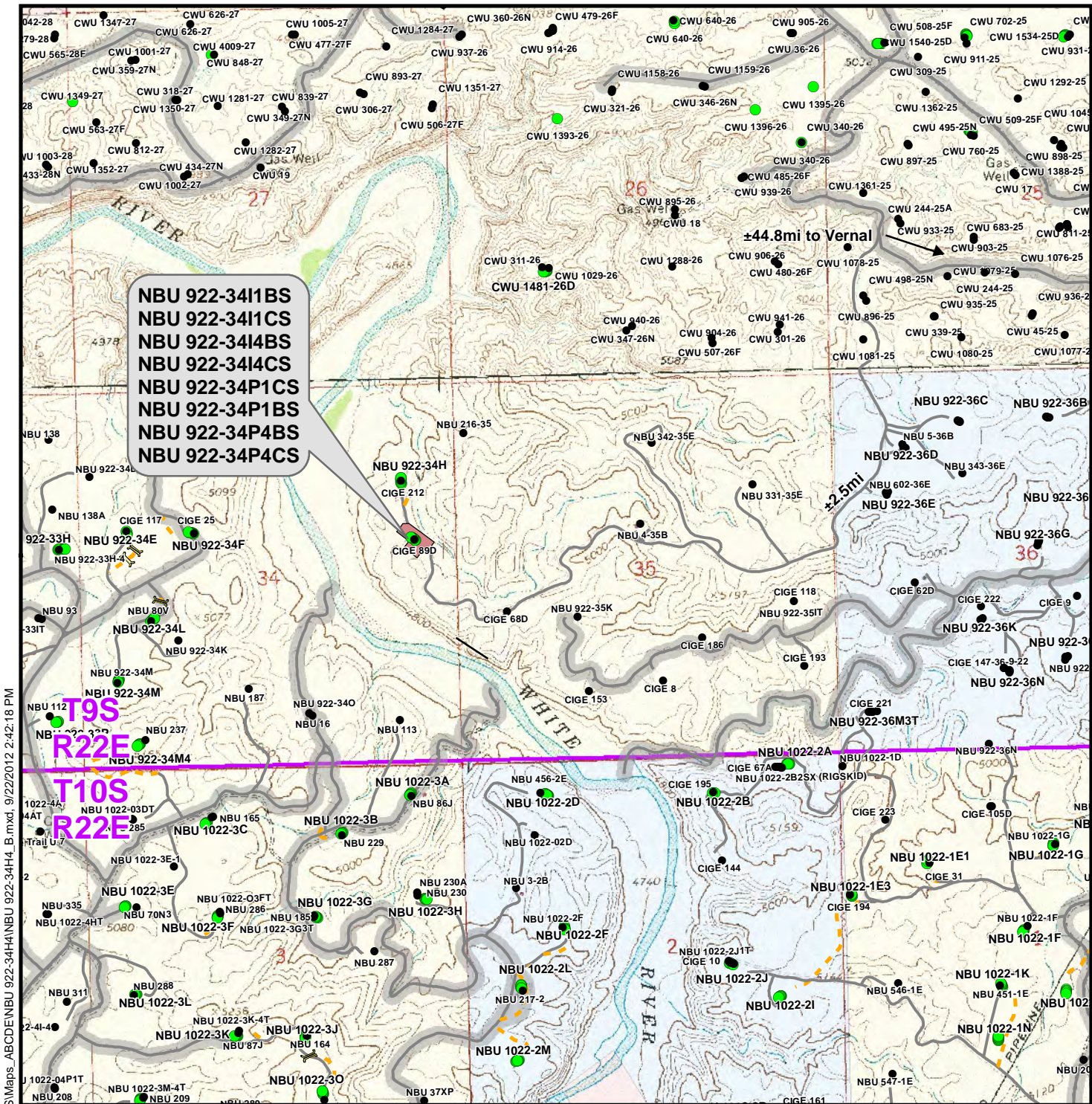
**14**

REVISED:

DATE:

14 OF 20





File: K:\ANADARKO\2012\2012\_36\_NBU\_FOCUS\_922-34\GIS\Maps\_ABCDENBU\_922-34H4\NBU\_922-34H4\_B.mxd, 9/22/2012 2:42:18 PM

**Legend**

- |  |  |   |  |   |   |
|--|--|---|--|---|---|
| <span style="color: green;">●</span> Well - Proposed | <span style="background-color: #f08080; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> Well Pad | <span style="color: orange;">---</span> Road - Proposed     | <span style="background-color: #d3d3d3; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> County Road        | <span style="background-color: #ffff00; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> Bureau of Land Management | <span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> State |
| <span style="color: black;">●</span> Well - Existing | <span style="color: gray;">---</span> Road - Existing  | <span style="color: green;">~</span> Culvert/LWC - Proposed | <span style="background-color: #f08080; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> Indian Reservation | <span style="background-color: #ffffff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> Private                   |   |

Total Proposed Road Length: ±0ft

**WELL PAD - NBU 922-34H4**

**TOPO B**

NBU 922-3411BS, NBU 922-3411CS,  
NBU 922-3414BS, NBU 922-3414CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., Uintah County, Utah

**Kerr-McGee Oil &  
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1099 18th Street  
Denver, Colorado 80202



**CONSULTING, LLC**

2155 North Main Street  
Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED: TL

NAD83 USP Central

DATE: 28 June 2012

DATE: 18 Sept 2012

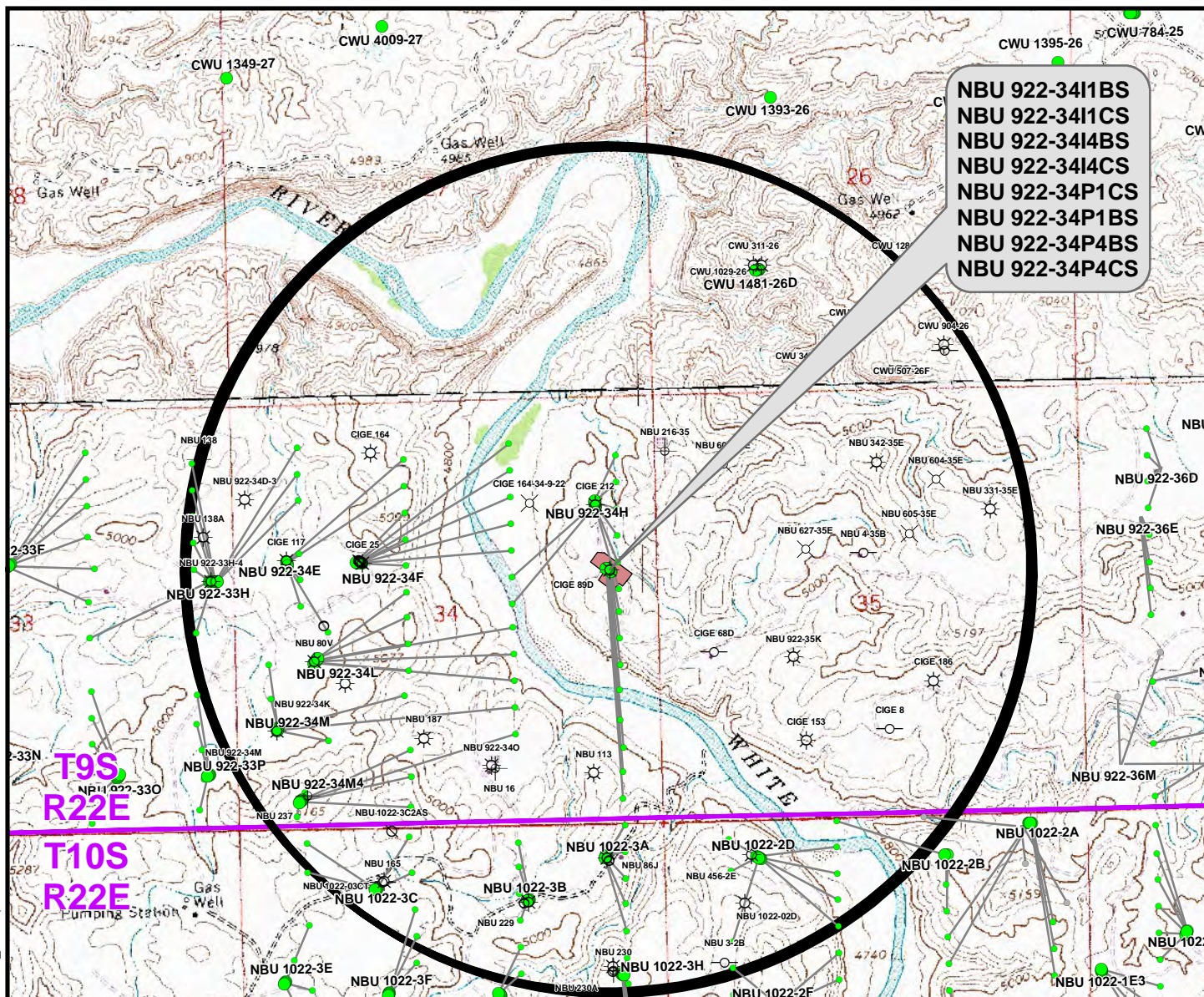
SHEET NO:

**15**

15 OF 20

RECEIVED: May 07, 2013





Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
NBU 922-34I1BS	CIGE 89D	525ft
NBU 922-34I1CS	CIGE 89D	854ft
NBU 922-34I4BS	CIGE 68D	1,178ft
NBU 922-34I4CS	NBU 113	1,078ft
NBU 922-34P1CS	NBU 113	480ft
NBU 922-34P1BS	NBU 113	733ft
NBU 922-34P4BS	NBU 113	364ft
NBU 922-34P4CS	NBU 113	487ft

### Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius
- ☀ Producing
- ☺ Spudded
- APD Approved
- ⊙ Preliminary Location
- ⊕ Deferred
- ✕ Cancelled
- ⊖ Temporarily Abandoned
- ☀ Active Injector
- ⊕ Plugged & Abandoned
- ⊗ Location Abandoned
- ⊖ Shut-In

### WELL PAD - NBU 922-34H4

#### TOPO C

NBU 922-34I1BS, NBU 922-34I1CS,  
NBU 922-34I4BS, NBU 922-34I4CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., Uintah County, Utah

### Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street  
Denver, Colorado 80202



#### CONSULTING, LLC

2155 North Main Street  
Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 18 Sept 2012

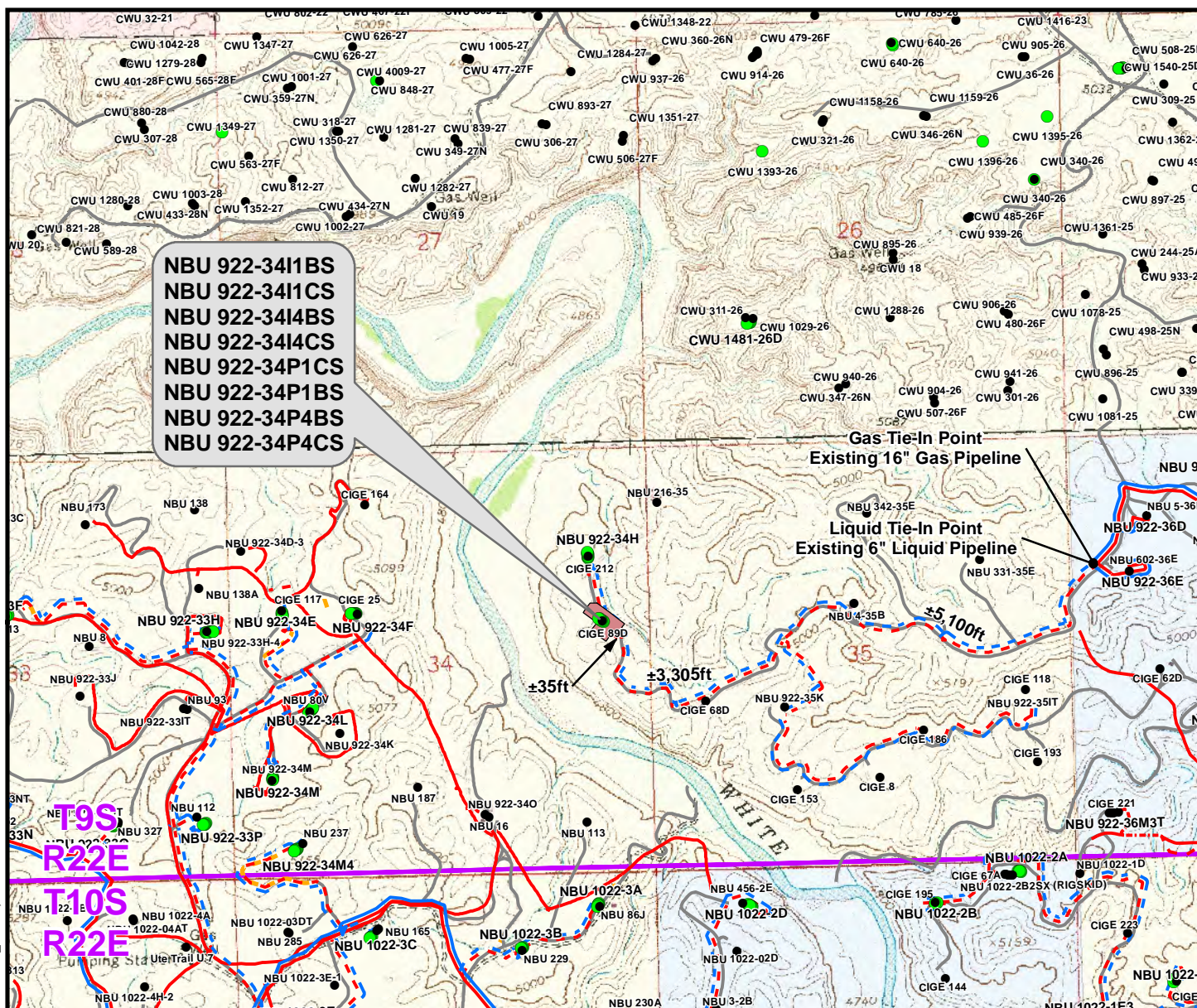
DATE:

SHEET NO:

16

16 OF 20





Proposed Liquid Pipeline	Length
=====	=====
Buried 6" (Max.) (Separator to Edge of Pad)	±150ft
Buried 6" (Max.) (Edge of Pad to 34H Intersection)	±35ft
Buried 6" (Max.) (34H Intersection to 922-35 Future Tie-In)	±3,305ft
Buried 6" (Max.) (922-35 Future Tie-In to Existing 6" Liquid Pipeline)	±5,100ft
<b>TOTAL PROPOSED BURIED LIQUID PIPELINE =</b>	<b>±8,590ft</b>

Proposed Gas Pipeline	Length
=====	=====
Buried 12" (Meter House to Edge of Pad)	±150ft
Buried 12" (Edge of Pad to 34H Intersection)	±35ft
Buried 12" (34H Intersection to 922-35 Future Tie-In)	±3,305ft
Buried 16" (922-35 Future Tie-In to Existing 16" Gas Pipeline)	±5,100ft
<b>TOTAL PROPOSED BURIED GAS PIPELINE =</b>	<b>±8,590ft</b>

### Legend

● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management	■ State
● Well - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - Existing	- - - Road - Existing	■ Indian Reservation	■ Private
■ Well Pad	- - - Gas Pipeline - Existing				

### WELL PAD - NBU 922-34H4

#### TOPO D

NBU 922-34H1BS, NBU 922-34H1CS,  
NBU 922-34H4BS, NBU 922-34H4CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., Uintah County, Utah

### Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street  
Denver, Colorado 80202



#### CONSULTING, LLC

2155 North Main Street  
Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 18 Sept 2012

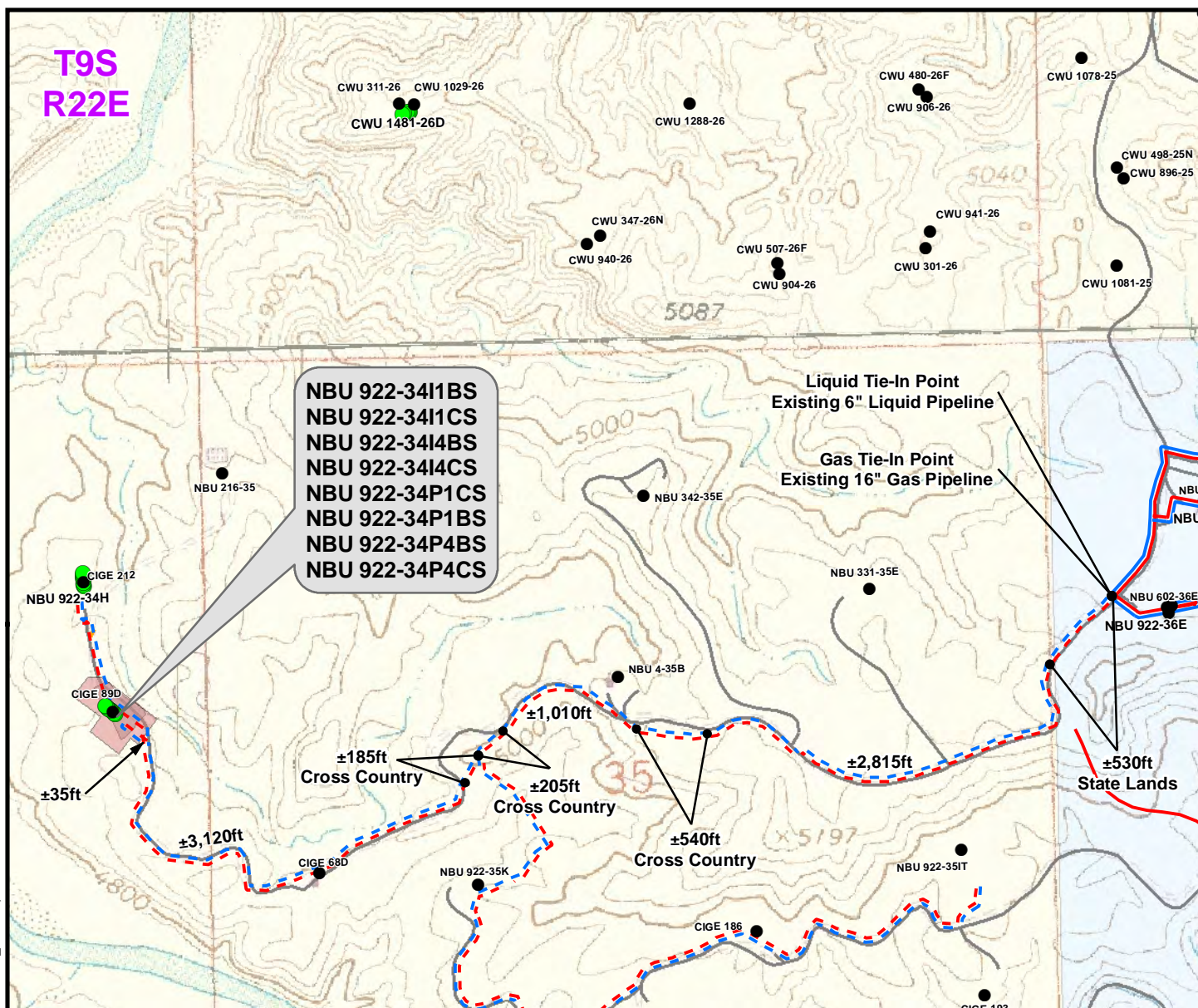
DATE:

SHEET NO:

**17**

17 OF 20





Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Separator to Edge of Pad)	±150ft
Buried 6" (Max.) (Edge of Pad to 34H Intersection)	±35ft
Buried 6" (Max.) (34H Intersection to 922-35 Future Tie-In)	±3,305ft
Buried 6" (Max.) (922-35 Future Tie-In to Existing 6" Liquid Pipeline)	±5,100ft
<b>TOTAL PROPOSED BURIED LIQUID PIPELINE =</b>	<b>±8,590ft</b>

Proposed Gas Pipeline	Length
Buried 12" (Meter House to Edge of Pad)	±150ft
Buried 12" (Edge of Pad to 34H Intersection)	±35ft
Buried 12" (34H Intersection to 922-35 Future Tie-In)	±3,305ft
Buried 16" (922-35 Future Tie-In to Existing 16" Gas Pipeline)	±5,100ft
<b>TOTAL PROPOSED BURIED GAS PIPELINE =</b>	<b>±8,590ft</b>

**Legend**

● Well - Proposed	■ Well Pad - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management
● Well - Existing	■ Well Pad - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - Existing	- - - Road - Existing	■ Indian Reservation
		- - - Gas Pipeline - Existing			■ State
					■ Private

**WELL PAD - NBU 922-34H4**

TOPO D2 (PAD & PIPELINE DETAIL)  
 NBU 922-34I1BS, NBU 922-34I1CS,  
 NBU 922-34I4BS, NBU 922-34I4CS,  
 NBU 922-34P1CS, NBU 922-34P1BS,  
 NBU 922-34P4BS & NBU 922-34P4CS  
 LOCATED IN SECTION 34, T9S, R22E,  
 S.L.B.&M., UTAH COUNTY, UTAH

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Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182

SCALE: 1" = 1,000ft

DRAWN: TL

REVISED: TL

NAD83 USP Central

DATE: 5 July 2012

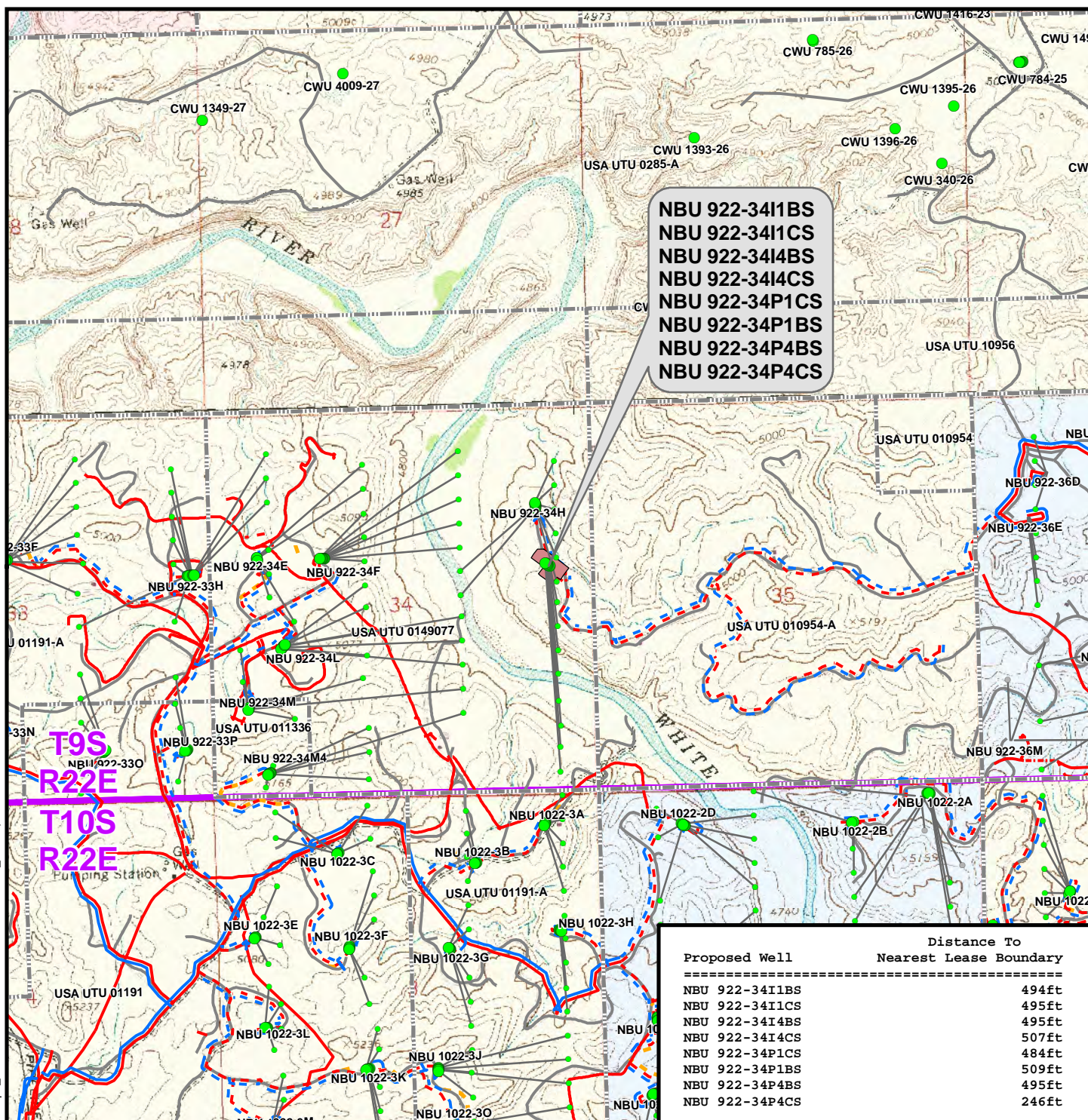
DATE: 18 Sept 2012

SHEET NO:

**18**

18 OF 20





## Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- ▬ Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

## WELL PAD - NBU 922-34H4

## TOPO E

NBU 922-34I1BS, NBU 922-34I1CS,  
NBU 922-34I4BS, NBU 922-34I4CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
LOCATED IN SECTION 34, T9S, R22E,  
S.L.B.&M., UINAH COUNTY, UTAH

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SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 18 Sept 2012

DATE:

SHEET NO:

**19**

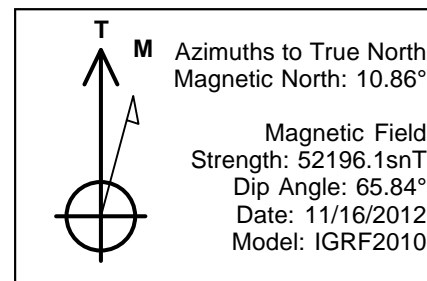
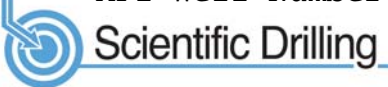
19 OF 20



**Kerr-McGee Oil & Gas Onshore, LP  
WELL PAD – NBU 922-34H4  
WELLS – NBU 922-34I1BS, NBU 922-34I1CS,  
NBU 922-34I4BS, NBU 922-34I4CS,  
NBU 922-34P1CS, NBU 922-34P1BS,  
NBU 922-34P4BS & NBU 922-34P4CS  
Section 34, T9S, R22E, S.L.B.&M.**

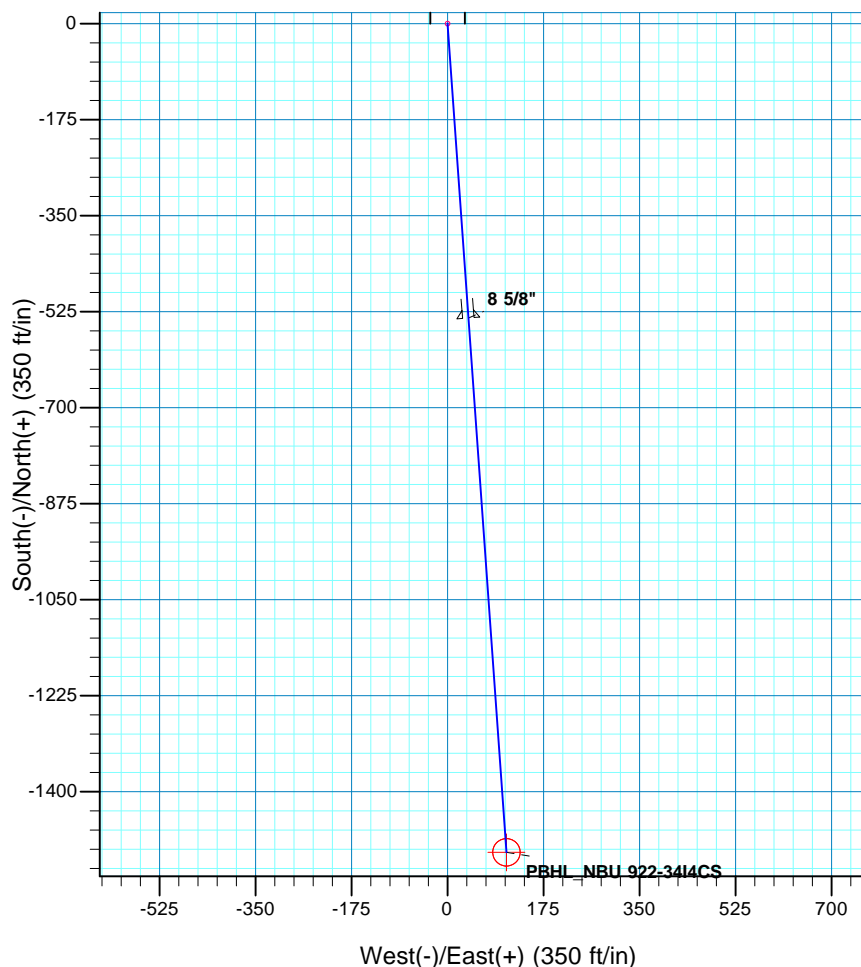
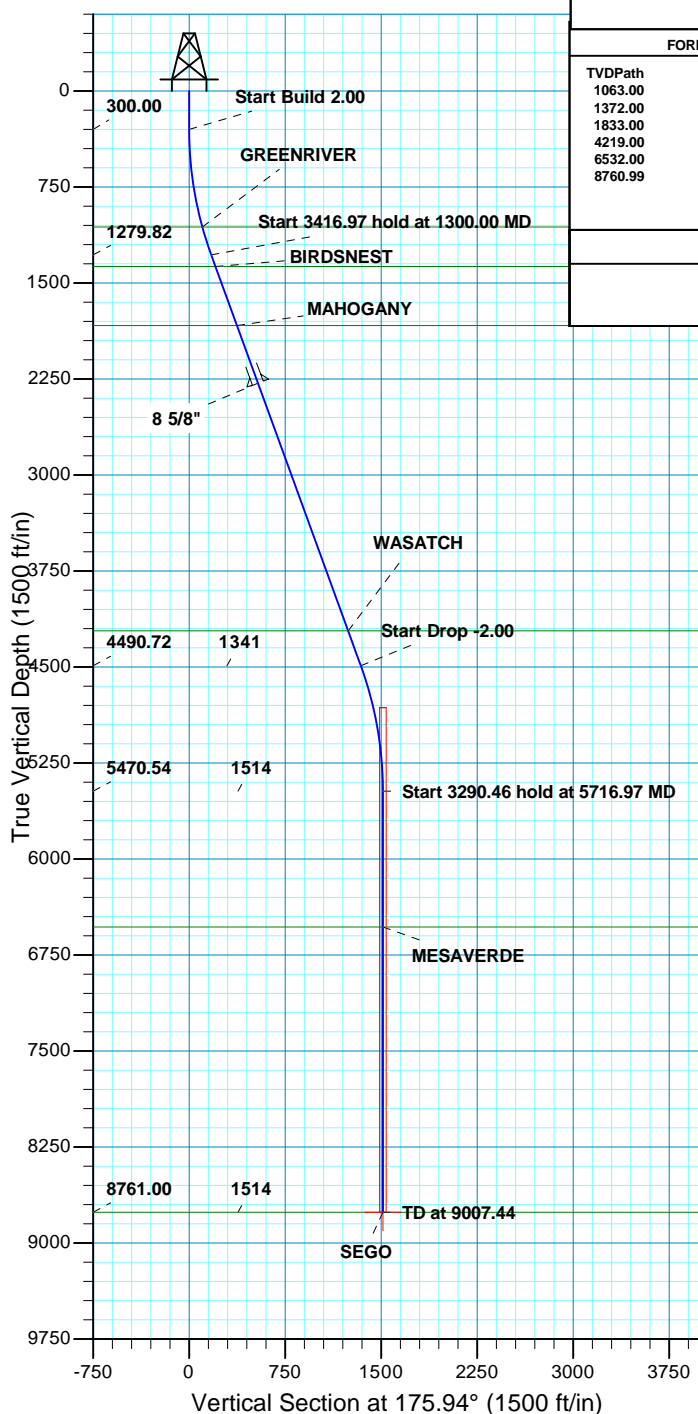
From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidler Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidler Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420) to the south. Exit right and proceed in a southerly, then southeasterly direction along the Seven Sisters Road approximately 1.2 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly then southerly direction along the Class D County Road approximately 0.5 miles to a second Class D County Road to the west. Exit right and proceed in a westerly, then northwesterly direction along the second Class D County Road approximately 0.8 miles to a service road to the south. Exit left and proceed in a southerly, then westerly, then northwesterly direction along the service road approximately 2.5 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 47.3 miles in a southerly direction.



WELL DETAILS: NBU 922-34I4CS							
GL 4900 & KB 4 @ 4904.00ft (ASSUMED)							
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
	0.00	0.00	14527730.98	2083461.23	39.993836	-109.418205	
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL	8761.00	-1510.40	107.30	14526222.72	2083595.32	39.989689	-109.417822
- plan hits target center							
	Shape						
	Circle (Radius: 25.00)						

SECTION DETAILS										
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
	1300.00	20.00	175.94	1279.82	-172.33	12.24	2.00	175.94	172.77	
	4716.97	20.00	175.94	4490.72	-1338.07	95.06	0.00	0.00	1341.44	
	5716.97	0.00	0.00	5470.54	-1510.40	107.30	2.00	180.00	1514.21	
	9007.44	0.00	0.00	8761.00	-1510.40	107.30	0.00	0.00	1514.21	PBHL_NBU 922-34I4CS
FORMATION TOP DETAILS					PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N  Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 34 T9S R22E System Datum: Mean Sea Level					
TVDPath	MDPath	Formation								
1063.00	1072.32	GREENRIVER								
1372.00	1398.10	BIRDSNEST								
1833.00	1888.69	MAHOGANY								
4219.00	4427.81	WASATCH								
6532.00	6778.44	MESAVERDE								
8760.99	9007.43	SEGO		0.00						
CASING DETAILS										
			TVD	MD	Name	Size				
			2283.00	2367.57	8 5/8"	8.625				



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# Scientific Drilling

## **US ROCKIES REGION PLANNING**

**UTAH - UTM (feet), NAD27, Zone 12N**

**NBU 922-34H4 PAD**

**NBU 922-34I4CS**

**OH**

**Plan: PLAN #1 PRELIMINARY**

## **Standard Planning Report**

**16 November, 2012**





<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34I4CS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4900 & KB 4 @ 4904.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4900 & KB 4 @ 4904.00ft (ASSUMED)
<b>Site:</b>	NBU 922-34H4 PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34I4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

<b>Project</b>	UTAH - UTM (feet), NAD27, Zone 12N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	NBU 922-34H4 PAD, SECTION 34 T9S R22E			
<b>Site Position:</b>		<b>Northing:</b>	14,527,707.15 usft	<b>Latitude:</b> 39.993769
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,083,493.31 usft	<b>Longitude:</b> -109.418092
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b> 1.02 °

Well	NBU 922-34I4CS, 2172 FNL 612 FEL				
Well Position	+N/-S	24.40 ft	Northing:	14,527,730.99 usft	Latitude: 39.993836
	+E/-W	-31.66 ft	Easting:	2,083,461.23 usft	Longitude: -109.418205
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level: 4,900.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/16/12	10.86	65.84	52,196

<b>Design</b>	PLAN #1 PRELIMINARY			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	175.94

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	175.94	1,279.82	-172.33	12.24	2.00	2.00	0.00	175.94	
4,716.98	20.00	175.94	4,490.72	-1,338.07	95.06	0.00	0.00	0.00	0.00	
5,716.98	0.00	0.00	5,470.54	-1,510.40	107.30	2.00	-2.00	0.00	180.00	
9,007.44	0.00	0.00	8,761.00	-1,510.40	107.30	0.00	0.00	0.00	0.00	PBHL_NBU 922-34I4



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34I4CS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4900 & KB 4 @ 4904.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4900 & KB 4 @ 4904.00ft (ASSUMED)
<b>Site:</b>	NBU 922-34H4 PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34I4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
400.00	2.00	175.94	399.98	-1.74	0.12	1.75	2.00	2.00	0.00
500.00	4.00	175.94	499.84	-6.96	0.49	6.98	2.00	2.00	0.00
600.00	6.00	175.94	599.45	-15.65	1.11	15.69	2.00	2.00	0.00
700.00	8.00	175.94	698.70	-27.81	1.98	27.88	2.00	2.00	0.00
800.00	10.00	175.94	797.47	-43.41	3.08	43.52	2.00	2.00	0.00
900.00	12.00	175.94	895.62	-62.45	4.44	62.60	2.00	2.00	0.00
1,000.00	14.00	175.94	993.06	-84.88	6.03	85.10	2.00	2.00	0.00
1,072.32	15.45	175.94	1,063.00	-103.22	7.33	103.48	2.00	2.00	0.00
<b>GREENRIVER</b>									
1,100.00	16.00	175.94	1,089.64	-110.70	7.86	110.98	2.00	2.00	0.00
1,200.00	18.00	175.94	1,185.27	-139.86	9.94	140.21	2.00	2.00	0.00
1,300.00	20.00	175.94	1,279.82	-172.33	12.24	172.77	2.00	2.00	0.00
<b>Start 3416.97 hold at 1300.00 MD</b>									
1,398.10	20.00	175.94	1,372.00	-205.80	14.62	206.32	0.00	0.00	0.00
<b>BIRDSNEST</b>									
1,400.00	20.00	175.94	1,373.78	-206.45	14.67	206.97	0.00	0.00	0.00
1,500.00	20.00	175.94	1,467.75	-240.57	17.09	241.17	0.00	0.00	0.00
1,600.00	20.00	175.94	1,561.72	-274.68	19.51	275.37	0.00	0.00	0.00
1,700.00	20.00	175.94	1,655.69	-308.80	21.94	309.58	0.00	0.00	0.00
1,800.00	20.00	175.94	1,749.66	-342.91	24.36	343.78	0.00	0.00	0.00
1,888.69	20.00	175.94	1,833.00	-373.17	26.51	374.11	0.00	0.00	0.00
<b>MAHOGANY</b>									
1,900.00	20.00	175.94	1,843.63	-377.03	26.78	377.98	0.00	0.00	0.00
2,000.00	20.00	175.94	1,937.60	-411.15	29.21	412.18	0.00	0.00	0.00
2,100.00	20.00	175.94	2,031.57	-445.26	31.63	446.38	0.00	0.00	0.00
2,200.00	20.00	175.94	2,125.54	-479.38	34.06	480.59	0.00	0.00	0.00
2,300.00	20.00	175.94	2,219.51	-513.49	36.48	514.79	0.00	0.00	0.00
2,367.57	20.00	175.94	2,283.00	-536.55	38.12	537.90	0.00	0.00	0.00
<b>8 5/8"</b>									
2,400.00	20.00	175.94	2,313.48	-547.61	38.90	548.99	0.00	0.00	0.00
2,500.00	20.00	175.94	2,407.45	-581.73	41.33	583.19	0.00	0.00	0.00
2,600.00	20.00	175.94	2,501.42	-615.84	43.75	617.39	0.00	0.00	0.00
2,700.00	20.00	175.94	2,595.39	-649.96	46.17	651.60	0.00	0.00	0.00
2,800.00	20.00	175.94	2,689.35	-684.07	48.60	685.80	0.00	0.00	0.00
2,900.00	20.00	175.94	2,783.32	-718.19	51.02	720.00	0.00	0.00	0.00
3,000.00	20.00	175.94	2,877.29	-752.31	53.44	754.20	0.00	0.00	0.00
3,100.00	20.00	175.94	2,971.26	-786.42	55.87	788.40	0.00	0.00	0.00
3,200.00	20.00	175.94	3,065.23	-820.54	58.29	822.61	0.00	0.00	0.00
3,300.00	20.00	175.94	3,159.20	-854.65	60.72	856.81	0.00	0.00	0.00
3,400.00	20.00	175.94	3,253.17	-888.77	63.14	891.01	0.00	0.00	0.00
3,500.00	20.00	175.94	3,347.14	-922.89	65.56	925.21	0.00	0.00	0.00
3,600.00	20.00	175.94	3,441.11	-957.00	67.99	959.41	0.00	0.00	0.00
3,700.00	20.00	175.94	3,535.08	-991.12	70.41	993.62	0.00	0.00	0.00
3,800.00	20.00	175.94	3,629.05	-1,025.23	72.83	1,027.82	0.00	0.00	0.00
3,900.00	20.00	175.94	3,723.02	-1,059.35	75.26	1,062.02	0.00	0.00	0.00
4,000.00	20.00	175.94	3,816.99	-1,093.47	77.68	1,096.22	0.00	0.00	0.00
4,100.00	20.00	175.94	3,910.95	-1,127.58	80.10	1,130.42	0.00	0.00	0.00
4,200.00	20.00	175.94	4,004.92	-1,161.70	82.53	1,164.63	0.00	0.00	0.00





<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34I4CS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4900 & KB 4 @ 4904.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4900 & KB 4 @ 4904.00ft (ASSUMED)
<b>Site:</b>	NBU 922-34H4 PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34I4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.00	20.00	175.94	4,098.89	-1,195.81	84.95	1,198.83	0.00	0.00	0.00
4,400.00	20.00	175.94	4,192.86	-1,229.93	87.38	1,233.03	0.00	0.00	0.00
4,427.81	20.00	175.94	4,219.00	-1,239.42	88.05	1,242.54	0.00	0.00	0.00
<b>WASATCH</b>									
4,500.00	20.00	175.94	4,286.83	-1,264.05	89.80	1,267.23	0.00	0.00	0.00
4,600.00	20.00	175.94	4,380.80	-1,298.16	92.22	1,301.43	0.00	0.00	0.00
4,700.00	20.00	175.94	4,474.77	-1,332.28	94.65	1,335.64	0.00	0.00	0.00
4,716.98	20.00	175.94	4,490.72	-1,338.07	95.06	1,341.44	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
4,800.00	18.34	175.94	4,569.14	-1,365.26	96.99	1,368.70	2.00	-2.00	0.00
4,900.00	16.34	175.94	4,664.59	-1,394.99	99.10	1,398.51	2.00	-2.00	0.00
5,000.00	14.34	175.94	4,761.02	-1,421.38	100.98	1,424.96	2.00	-2.00	0.00
5,100.00	12.34	175.94	4,858.32	-1,444.39	102.61	1,448.03	2.00	-2.00	0.00
5,200.00	10.34	175.94	4,956.36	-1,464.00	104.00	1,467.69	2.00	-2.00	0.00
5,300.00	8.34	175.94	5,055.03	-1,480.19	105.15	1,483.92	2.00	-2.00	0.00
5,400.00	6.34	175.94	5,154.21	-1,492.93	106.06	1,496.69	2.00	-2.00	0.00
5,500.00	4.34	175.94	5,253.77	-1,502.21	106.72	1,506.00	2.00	-2.00	0.00
5,600.00	2.34	175.94	5,353.59	-1,508.02	107.13	1,511.82	2.00	-2.00	0.00
5,700.00	0.34	175.94	5,453.56	-1,510.35	107.30	1,514.16	2.00	-2.00	0.00
5,716.98	0.00	0.00	5,470.54	-1,510.40	107.30	1,514.21	2.00	-2.00	0.00
<b>Start 3290.46 hold at 5716.97 MD</b>									
5,800.00	0.00	0.00	5,553.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
5,900.00	0.00	0.00	5,653.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,000.00	0.00	0.00	5,753.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,100.00	0.00	0.00	5,853.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,200.00	0.00	0.00	5,953.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,300.00	0.00	0.00	6,053.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,400.00	0.00	0.00	6,153.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,500.00	0.00	0.00	6,253.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,600.00	0.00	0.00	6,353.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,700.00	0.00	0.00	6,453.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,778.44	0.00	0.00	6,532.00	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
<b>MESAVERDE</b>									
6,800.00	0.00	0.00	6,553.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
6,900.00	0.00	0.00	6,653.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,000.00	0.00	0.00	6,753.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,100.00	0.00	0.00	6,853.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,200.00	0.00	0.00	6,953.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,300.00	0.00	0.00	7,053.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,400.00	0.00	0.00	7,153.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,500.00	0.00	0.00	7,253.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,600.00	0.00	0.00	7,353.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,700.00	0.00	0.00	7,453.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,800.00	0.00	0.00	7,553.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
7,900.00	0.00	0.00	7,653.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
8,000.00	0.00	0.00	7,753.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
8,100.00	0.00	0.00	7,853.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
8,200.00	0.00	0.00	7,953.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
8,300.00	0.00	0.00	8,053.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
8,400.00	0.00	0.00	8,153.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
8,500.00	0.00	0.00	8,253.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
8,600.00	0.00	0.00	8,353.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
8,700.00	0.00	0.00	8,453.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-34I4CS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4900 & KB 4 @ 4904.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4900 & KB 4 @ 4904.00ft (ASSUMED)
<b>Site:</b>	NBU 922-34H4 PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-34I4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,553.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
8,900.00	0.00	0.00	8,653.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
9,000.00	0.00	0.00	8,753.56	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
9,007.43	0.00	0.00	8,760.99	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
<b>SEGO</b>									
9,007.44	0.00	0.00	8,761.00	-1,510.40	107.30	1,514.21	0.00	0.00	0.00
<b>TD at 9007.44 - PBHL_NBU 922-34I4CS</b>									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_NBU 922-34I4CS	0.00	0.00	8,761.00	-1,510.40	107.30	14,526,222.73	2,083,595.31	39.989689	-109.417822
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,367.57	2,283.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,072.32	1,063.00	GREENRIVER			
1,398.10	1,372.00	BIRDSNEST			
1,888.69	1,833.00	MAHOGANY			
4,427.81	4,219.00	WASATCH			
6,778.44	6,532.00	MESAVERDE			
9,007.43	8,760.99	SEGO		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-172.33	12.24	Start 3416.97 hold at 1300.00 MD
4,716.98	4,490.72	-1,338.07	95.06	Start Drop -2.00
5,716.98	5,470.54	-1,510.40	107.30	Start 3290.46 hold at 5716.97 MD
9,007.44	8,761.00	-1,510.40	107.30	TD at 9007.44

NBU 922-34I1BS / NBU 922-34I1CS / NBU 922-34I4BS  
 NBU 922-34I4CS / NBU 922-34P1BS / NBU 922-34P1CS /  
 NBU 922-34P4BS / NBU 922-34P4CS

Surface Use Plan of Operations  
 1 of 7

## Kerr-McGee Oil & Gas Onshore. L.P.

### NBU 922-34H4 PAD

<b><u>API #</u></b>	<b><u>NBU 922-34I1BS</u></b>	
	Surface: 2197 FNL / 581 FEL	SENE
	BHL: 2584 FSL / 494 FEL	NESE
<b><u>API #</u></b>	<b><u>NBU 922-34I1CS</u></b>	
	Surface: 2191 FNL / 589 FEL	SENE
	BHL: 2251 FSL / 495 FEL	NESE
<b><u>API #</u></b>	<b><u>NBU 922-34I4BS</u></b>	
	Surface: 2178 FNL / 604 FEL	SENE
	BHL: 1918 FSL / 495 FEL	NESE
<b><u>API #</u></b>	<b><u>NBU 922-34I4CS</u></b>	
	Surface: 2172 FNL / 612 FEL	SENE
	BHL: 1600 FSL / 507 FEL	NESE
<b><u>API #</u></b>	<b><u>NBU 922-34P1BS</u></b>	
	Surface: 2160 FNL / 628 FEL	SENE
	BHL: 1225 FSL / 509 FEL	SESE
<b><u>API #</u></b>	<b><u>NBU 922-34P1CS</u></b>	
	Surface: 2166 FNL / 620 FEL	SENE
	BHL: 881 FSL / 484 FEL	SESE
<b><u>API #</u></b>	<b><u>NBU 922-34P4BS</u></b>	
	Surface: 2154 FNL / 636 FEL	SENE
	BHL: 583 FSL / 495 FEL	SESE
<b><u>API #</u></b>	<b><u>NBU 922-34P4CS</u></b>	
	Surface: 2148 FNL / 644 FEL	SENE
	BHL: 246 FSL / 505 FEL	SESE

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

NBU 922-34I1BS / NBU 922-34I1CS / NBU 922-34I4BS  
NBU 922-34I4CS / NBU 922-34P1BS / NBU 922-34P1CS /  
NBU 922-34P4BS / NBU 922-34P4CS

Surface Use Plan of Operations  
2 of 7

An on-site meeting was held on August 16-17, 2012. Present were:

- Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett - BLM;
- Jessi Brunson - USFWS;
- Bill Knapp - ICF Consulting;
- Jacob Dunham - 609 Consulting;
- Mitch Batty - Timberline Engineering & Land Surveying, Inc.; and
- Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

**A. Existing Roads:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

**B. New or Reconstructed Access Roads:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

**There are no new roads or re-routes planned for this pad.**

**C. Location of Existing Wells:**

Please refer to Topo C for exiting wells.

**D. Location of Existing and/or Proposed Facilities:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the CIGE 89D, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on of pad November 21, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

**GAS GATHERING**

*Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.*

The total gas gathering pipeline distance from the meter to the tie in point is  $\pm 8,590'$  and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

$\pm 150'$  (0.03 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077, BLM surface, New 12" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

NBU 922-34I1BS / NBU 922-34I1CS / NBU 922-34I4BS  
 NBU 922-34I4CS / NBU 922-34P1BS / NBU 922-34P1CS /  
 NBU 922-34P4BS / NBU 922-34P4CS

Surface Use Plan of Operations

3 of 7

- ±35' (0.01 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077, BLM surface, New 12" buried gas gathering pipeline from the edge of the pad to tie-in to the proposed buried 12" gas gathering pipeline at the NBU 922-34H Pad intersection . Please refer to Exhibit A, Line 8.
- ±3,305' (0.6 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077 and UTU-010954-A, BLM surface, New 12" buried gas gathering pipeline from the NBU 922-34H Pad pipeline intersection to tie-in to the proposed buried 16" gas gathering pipeline at the NBU 922-35N Pad intersection located at SE/4 NW/4, Section 35 of T9S-R22E. There will be 185' of cross country gas gathering pipeline. This pipeline will be used concurrently with the NBU 922-34H Pad. Please refer to Exhibit A, Lines 7 and 6.

**The following segments require a ROW. Anadarko Uintah Midstream (AUM) will apply for an SF-299/POD under separate cover. AUM will also apply for the appropriate State easements. Listed below is the gas gathering pipeline distances:**

- ±4,570' (0.9 miles) – Section 35 T9S R22E – On-lease UTU 010954-A, BLM surface, New 16" buried gas gathering pipeline from the NBU 922-35N Pad intersection to the eastern lease boundary. There are two segments of pipeline that are cross county, 205' (Exhibit A, Line 5) and 540' (Exhibit A, Line 3). Please refer to Exhibit A, Lines 5, 4, 3 and 2.
- ±530' (0.1 miles) – Section 36 T9S R22E – On-lease ST UT ML-22650, SITLA surface, New 16" buried gas gathering pipeline from the western lease boundary to the tie-in to the existing buried 16" gas gathering pipeline at the NBU 922-36E Pad. Please refer to Exhibit A, Line 1.

#### **LIQUID GATHERING**

*Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.*

The total liquid gathering pipeline distance from the separator to the tie in point is ±9,500' and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

- ±150' (0.03 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±35' (0.01 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-34H Pad intersection . Please refer to Exhibit B, Line 8.
- ±3,305' (0.6 miles) – Section 34 T9S R22E (SE/4 NE/4) – On-lease UTU-0149077 and UTU-010954-A, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-34H Pad pipeline intersection to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-35N Pad intersection located at SE/4 NW/4, Section 35 of T9S-R22E. There will be 185' of cross country liquid gathering pipeline. This pipeline will be used concurrently with the NBU 922-34H Pad. Please refer to Exhibit B, Lines 7 and 6.



NBU 922-34I1BS / NBU 922-34I1CS / NBU 922-34I4BS  
NBU 922-34I4CS / NBU 922-34P1BS / NBU 922-34P1CS /  
NBU 922-34P4BS / NBU 922-34P4CS

Surface Use Plan of Operations  
4 of 7

±4,570' (0.9 miles) – Section 35 T9S R22E – On-lease UTU 010954-A, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-35N Pad intersection to the eastern lease boundary. There are two segments of pipeline that are cross county, 205' (Exhibit B, Line 5) and 540' (Exhibit B, Line 3). This pipeline will be used concurrently with the NBU 922-34H, NBU 922-35N, NBU 922-35O, NBU 922-35I, NBU 922-35F, NBU 922-35G and NBU 922-35H. Please refer to Exhibit B, Lines 5, 4, 3 and 2.

**Anadarko Uintah Midstream (AUM) will apply for the appropriate State easements under separate cover. Listed below is the liquid gathering pipeline distances:**

±530' (0.1 miles) – Section 36 T9S R22E – On-lease ST UT ML-22650, SITLA surface, New 6" buried liquid gathering pipeline from the western lease boundary to the tie-in to the existing buried 6" liquid gathering pipeline at the NBU 922-36E Pad. Please refer to Exhibit B, Line 1.

#### **Pipeline Gathering Construction**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **The Anadarko Completions Transportation System (ACTS) information:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

#### **E. Location and Types of Water Supply:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Water will be hauled to location over the roads marked on Maps A and B.

#### **F. Construction Materials:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **G. Methods for Handling Waste:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Materials Management**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **H. Ancillary Facilities:**

No additional ancillary facilities are planned for this location.

NBU 922-34I1BS / NBU 922-34I1CS / NBU 922-34I4BS  
NBU 922-34I4CS / NBU 922-34P1BS / NBU 922-34P1CS /  
NBU 922-34P4BS / NBU 922-34P4CS

Surface Use Plan of Operations  
5 of 7

**I. Well Site Layout:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

**J. Plans for Surface Reclamation:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

**Interim Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

**Final Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

**Measures Common to Interim and Final Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

**Weed Control**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

**Monitoring**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

**K. Surface/Mineral Ownership:**

United States of America  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078  
(435)781-4400

**L. Other Information:**

**Cultural and Paleontological Resources**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-34I1BS / NBU 922-34I1CS / NBU 922-34I4BS  
NBU 922-34I4CS / NBU 922-34P1BS / NBU 922-34P1CS /  
NBU 922-34P4BS / NBU 922-34P4CS

Surface Use Plan of Operations  
6 of 7

**Resource Reports:**

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on September 20, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-178.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-845.

**Proposed Action Annual Emissions Tables:**

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-34I1BS / NBU 922-34I1CS / NBU 922-34I4BS  
NBU 922-34I4CS / NBU 922-34P1BS / NBU 922-34P1CS /  
NBU 922-34P4BS / NBU 922-34P4CS

Surface Use Plan of Operations  
7 of 7

**M. Lessee's or Operators' Representative & Certification:**

Gina T. Becker  
Senior Regulatory Analyst  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6086

Tommy Thompson  
General Manager, Drilling  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

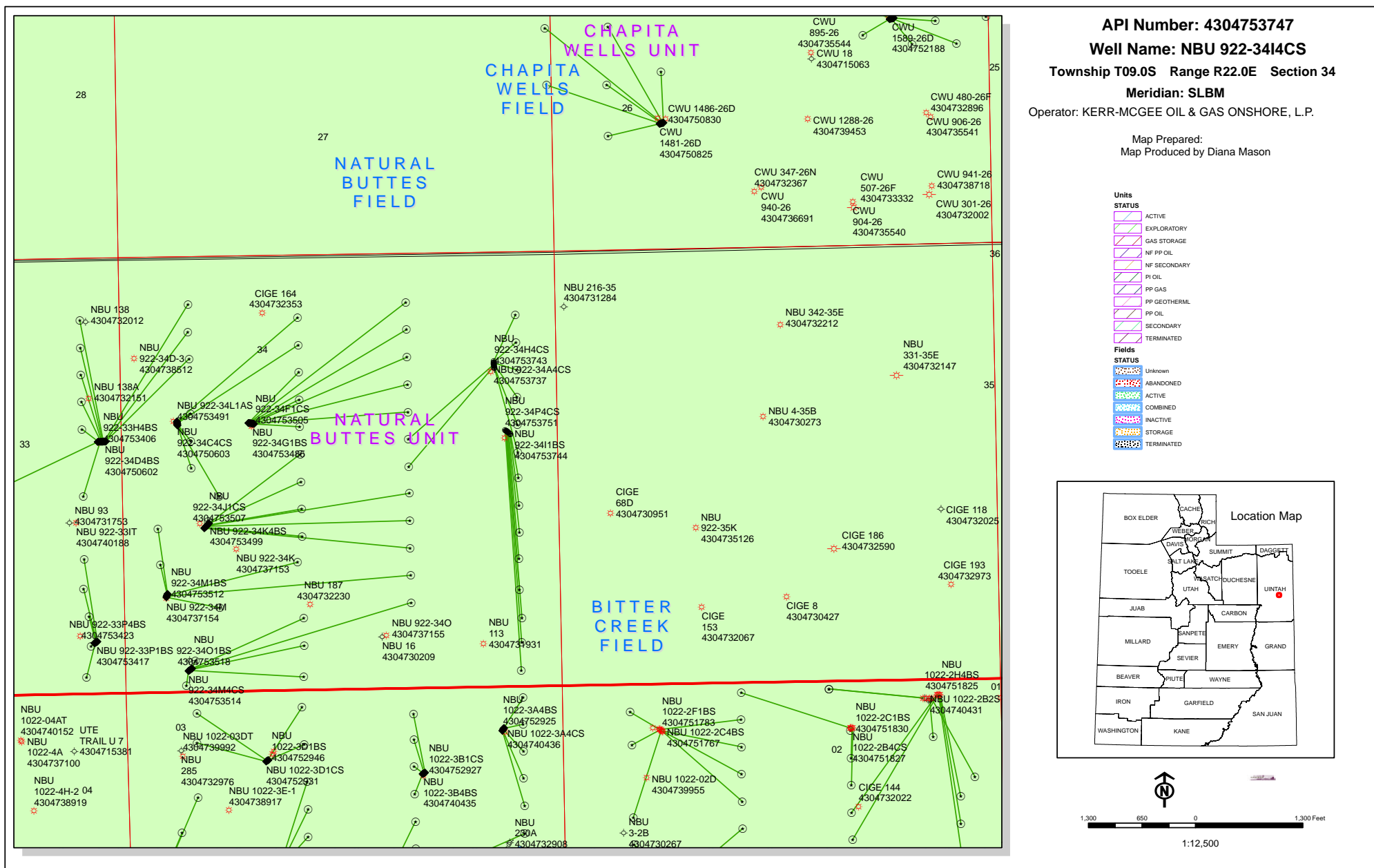
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Gina T. Becker

January 23, 2013

Date



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

May 20, 2013

Memorandum

To: Assistant Field Office Manager Minerals,  
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
<b>WELL PAD - NBU 922-34H</b>		
43-047-53736	NBU 922-34A4BS	Sec 34 T09S R22E 1311 FNL 0766 FEL
	BHL	Sec 34 T09S R22E 0751 FNL 0494 FEL
43-047-53737	NBU 922-34A4CS	Sec 34 T09S R22E 1321 FNL 0766 FEL
	BHL	Sec 34 T09S R22E 1084 FNL 0494 FEL
43-047-53738	NBU 922-34G4BS	Sec 34 T09S R22E 1350 FNL 0764 FEL
	BHL	Sec 34 T09S R22E 2245 FNL 1821 FEL
43-047-53739	NBU 922-34G4CS	Sec 34 T09S R22E 1370 FNL 0763 FEL
	BHL	Sec 34 T09S R22E 2578 FNL 1821 FEL
43-047-53740	NBU 922-34H1BS	Sec 34 T09S R22E 1331 FNL 0765 FEL
	BHL	Sec 34 T09S R22E 1418 FNL 0494 FEL
43-047-53741	NBU 922-34H1CS	Sec 34 T09S R22E 1341 FNL 0765 FEL
	BHL	Sec 34 T09S R22E 1752 FNL 0494 FEL
43-047-53742	NBU 922-34H4BS	Sec 34 T09S R22E 1380 FNL 0762 FEL
	BHL	Sec 34 T09S R22E 2085 FNL 0494 FEL
43-047-53743	NBU 922-34H4CS	Sec 34 T09S R22E 1390 FNL 0762 FEL
	BHL	Sec 34 T09S R22E 2419 FNL 0494 FEL
<b>WELL PAD - NBU 922-34H4</b>		
43-047-53744	NBU 922-34I1BS	Sec 34 T09S R22E 2197 FNL 0581 FEL
	BHL	Sec 34 T09S R22E 2584 FSL 0494 FEL
43-047-53745	NBU 922-34I1CS	Sec 34 T09S R22E 2191 FNL 0589 FEL
	BHL	Sec 34 T09S R22E 2251 FSL 0495 FEL
43-047-53746	NBU 922-34I4BS	Sec 34 T09S R22E 2178 FNL 0604 FEL
	BHL	Sec 34 T09S R22E 1918 FSL 0495 FEL

RECEIVED: May 22, 2013



API #	WELL NAME	LOCATION
43-047-53747	NBU 922-34I4CS	Sec 34 T09S R22E 2172 FNL 0612 FEL
	BHL	Sec 34 T09S R22E 1600 FSL 0507 FEL
43-047-53748	NBU 922-34P1BS	Sec 34 T09S R22E 2160 FNL 0628 FEL
	BHL	Sec 34 T09S R22E 1225 FSL 0509 FEL
43-047-53749	NBU 922-34P1CS	Sec 34 T09S R22E 2166 FNL 0620 FEL
	BHL	Sec 34 T09S R22E 0881 FSL 0484 FEL
43-047-53750	NBU 922-34P4BS	Sec 34 T09S R22E 2154 FNL 0636 FEL
	BHL	Sec 34 T09S R22E 0583 FSL 0495 FEL
43-047-53751	NBU 922-34P4CS	Sec 34 T09S R22E 2148 FNL 0644 FEL
	BHL	Sec 34 T09S R22E 0246 FSL 0505 FEL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,  
ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2013.05.20 12:38:28 -06'00'

bcc: File - Natural Buttes Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:5-20-13

RECEIVED: May 22, 2013

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/8/2013

API NO. ASSIGNED: 43047537470000

WELL NAME: NBU 922-34I4CS

OPERATOR: KERR-MCGEE OIL &amp; GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SENE 34 090S 220E

Permit Tech Review: ☒

SURFACE: 2172 FNL 0612 FEL

Engineering Review: ☒

BOTTOM: 1600 FSL 0507 FEL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.99376

LONGITUDE: -109.41885

UTM SURF EASTINGS: 634982.00

NORTHINGS: 4428262.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0149077

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: FEDERAL - WYB000291☐ Potash☒ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-8496☐ RDCC Review:☐ Fee Surface Agreement☒ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit: NATURAL BUTTES

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: Suspends General Siting

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet  
4 - Federal Approval - dmason  
15 - Directional - dmason  
17 - Oil Shale 190-5(b) - dmason

RECEIVED: May 22, 2013



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** NBU 922-34I4CS  
**API Well Number:** 43047537470000  
**Lease Number:** UTU-0149077  
**Surface Owner:** FEDERAL  
**Approval Date:** 5/22/2013

### Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0149077
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-3414CS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2172 FNL 0612 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047537470000
<b>PHONE NUMBER:</b> 720 929-6111		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>5/22/2014</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
<b>NAME (PLEASE PRINT)</b> Teena Paulo		<b>PHONE NUMBER</b> 720 929-6236
<b>SIGNATURE</b> N/A		<b>TITLE</b> Staff Regulatory Specialist
<b>DATE</b> 3/6/2014		<b>APPROVED BY:</b> <div style="text-align: center;"> <b>Approved by the Utah Division of Oil, Gas and Mining</b> </div> <b>Date:</b> March 10, 2014 <b>By:</b>



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047537470000**

API: 43047537470000

Well Name: NBU 922-34I4CS

Location: 2172 FNL 0612 FEL QTR SENE SEC 34 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 5/22/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
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- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Teena Paulo

Date: 3/6/2014

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 28 2013

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

## APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0149077
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No. UTU63047A
Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		8. Lease Name and Well No. NBU 922-3414CS
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	9. API Well No. 4304753747
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SENE 2172FNL 612FEL 39.993802 N Lat, 109.418887 W Lon At proposed prod. zone NESE 1600FSL 507FEL 39.989655 N Lat, 109.418505 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 47 MILES SOUTHEAST OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 34 T9S R22E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 507	16. No. of Acres in Lease 600.00	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well	13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1078	19. Proposed Depth 9007 MD 8761 TVD	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4899 GL	22. Approximate date work will start 09/01/2013	23. Estimated duration 60-90 DAYS

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 02/27/2013
Title SENIOR REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date MAY 12 2014
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Additional Operator Remarks (see next page)

Electronic Submission #200149 verified by the BLM Well Information System  
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal  
Committed to AFMSS for processing by JOHNETTA MAGEE on 03/04/2013 ()

NOTICE OF APPROVAL

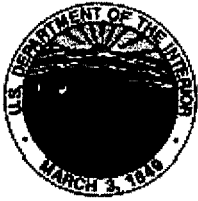
RECEIVED

MAY 15 2014

DIV. OF OIL, GAS &amp; MINING

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



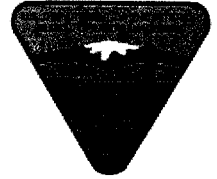


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: KERR MCGEE OIL&GAS ONSHORE LP  
Well No: NBU 922-3414CS  
API No: 43-047-53747

Location: SENE, Sec. 34, T9S, R22E  
Lease No: UTU-0149077  
Agreement:

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm ut vn opreport@blm.gov</a>
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- Bird exclusion netting will be installed over reserve pits containing water that are left open for more than 30 days to reduce possibility of exposure to hazardous chemicals (BLM 2012b).
- KMG will install bird-excluding devices that prevent the perching and entry of migratory birds on or into its new fired vessel exhaust stacks (BLM 2012b).

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Cement for the 4.5 inch casing shall be brought to a minimum of 200 feet above the surface casing shoe.
- A CBL shall run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in Section 9 of the Drilling Program of the SOP.
- Gamma Ray Log shall be run from TD to the Surface.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$  Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0149077
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-3414CS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2172 FNL 0612 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047537470000
<b>10. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>3/26/2015</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
<div style="color: red; font-weight: bold;">             Approved by the              March 30, 2015              Oil, Gas and Mining           </div> <div style="color: red; font-weight: bold;">             Date: _____              By:  </div>		
<b>NAME (PLEASE PRINT)</b> Joel Malefy	<b>PHONE NUMBER</b> 720 929-6828	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/26/2015	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43047537470000**

**API:** 43047537470000

**Well Name:** NBU 922-34I4CS

**Location:** 2172 FNL 0612 FEL QTR SENE SEC 34 TWNP 090S RNG 220E MER S

**Company Permit Issued to:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date Original Permit Issued:** 5/22/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
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- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Joel Malefyt

**Date:** 3/26/2015

**Title:** Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.



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<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>																															
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/21/2015  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Kerr-McGee Oil & Gas Onshore, LP respectfully requests to change the depth in which conductor is set from 40' to between 80'-150'. In addition, we request to change the conductor size from 14" to 16" for the NBU 922-34I4CS well. Thank you.																																
		<b>Approved by the</b> <b>August 24, 2015</b> <b>Oil, Gas and Mining</b>  <b>Date:</b> _____ <b>By:</b>																														
<b>NAME (PLEASE PRINT)</b> Kristina Geno		<b>PHONE NUMBER</b> 720 929-6824																														
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst																														
		<b>DATE</b> 8/20/2015																														

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0149077
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-3414CS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2172 FNL 0612 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 34 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047537470000
<b>PHONE NUMBER:</b> 720 929-6501		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>5/2/2016</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
<div style="color: red; font-weight: bold;">             Approved by the              May 09, 2016              Oil, Gas and Mining           </div> <div style="margin-top: 10px;"> <b>Date:</b> _____  <b>By:</b> </div>		
<b>NAME (PLEASE PRINT)</b> Joel Malefy	<b>PHONE NUMBER</b> 720 929-6828	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 5/2/2016



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047537470000**

API: 43047537470000

Well Name: NBU 922-34I4CS

Location: 2172 FNL 0612 FEL QTR SENE SEC 34 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 5/22/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Joel Malefyt

Date: 5/2/2016

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.



# RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

APR 29 2016

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
UTU0149077

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.  
UTU63047A

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.

NBU 922-34408 JHCS

2. Name of Operator

KERR MCGEE OIL & GAS ONSHORE

Contact: JOEL MALEFYT

E-Mail: JOEL.MALEFYT@ANADARKO.COM

9. API Well No.

43-047-53747

3a. Address

1368 SOUTH 1200 EAST  
VERNAL, UT 84078

3b. Phone No. (include area code)

Ph: 720-929-6828

10. Field and Pool, or Exploratory

GREATER NATURAL BUTTES

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 34 T9S R22E Mer SLB SENE 2172FNL 612FEL  
39.993802 N Lat, 109.418887 W Lon

11. County or Parish, and State

UINTAH COUNTY, UT

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

APD 5/12/14

NEMA 2014-011 EA

# RECEIVED

JUN 13 2016

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

VERNAL FIELD OFFICE	
ENG.	RTH 5/10/16
GEOLOG.	
E.S.	
PET.	
RECL.	

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #337991 verified by the BLM Well Information System  
For KERR MCGEE OIL & GAS ONSHORE, sent to the Vernal  
Committed to AFMSS for processing by STEVE HIRSCHI on 05/03/2016 ()

Name (Printed/Typed) JOEL MALEFYT

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 04/29/2016

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By 

Assistant Field Manager  
Lands & Mineral Resources

MAY 12 2016  
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office  
**VERNAL FIELD OFFICE**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

165TH 0350SE

# **CONDITIONS OF APPROVAL**

## **Kerr McGee Oil and Gas Onshore LP.**

### **Notice of Intent APD Extension**

**Lease:** UTU-0149077  
**Well:** NBU 922-34I4CS  
**Location:** SENE Sec 34-T9S-R22E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 05/12/2018.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777